Fédération Aéronautique Internationale

Maison du Sport International, Av. de Rhodanie 54, CH-1007 Lausanne

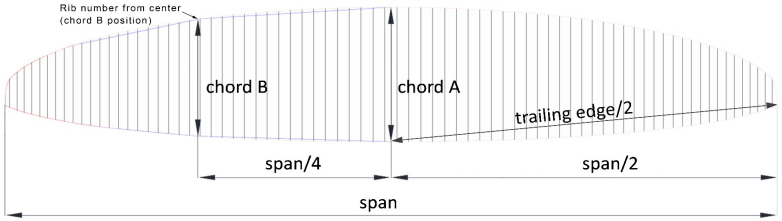
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	**FLOW**	**Size**	**S**	**Test laboratory | Cert. #**	n/a
Model	**SPECTRA2**	**Serial #**	**SP21MRE2101023**	**Certification date**	20/11/2021

Canopy dimensions

Position	Rib # from center	Distance [mm]	Tension [daN]	Manual tolerances	Aspect ratio 4*span / (chord A+2.5*Chord B)	Number cells	Scale factor
Full Span	666	12994	5	2%	**7.87**	**111**	**1.16953**
1/2 Trailing Edge	55	6611	5	1%			
Chord A	1	2099	1	1%			
Chord B	25	1802	1	1%			



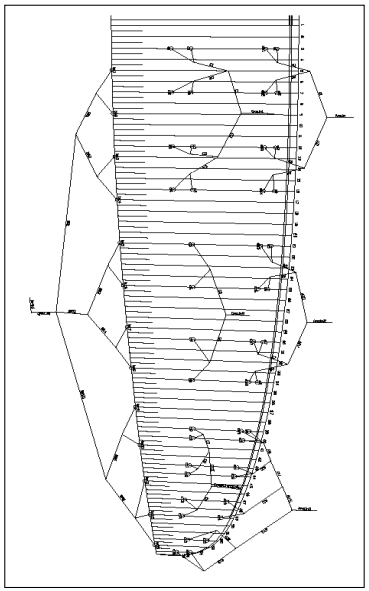
Chord lenght, inlet position, tabs position measured from trailing edge.

(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	3	2097	1	+/-10mm
Top of inlet	3	2012	5	+/-10mm
Bottom of inlet	3	1992	5	+/-10mm
Tab A*	3	1821	5	+/-10mm
Tab Ab*	3	1650	5	+/-10mm
Tab B*	3	889	5	+/-10mm
Tab C*	3	671	5	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	34	1534	1	+/-10mm
Top of inlet	34	1471	5	+/-10mm
Bottom of inlet	34	1456	5	+/-10mm
Tab Aa*	34	1327	5	+/-10mm
Tab Ab*	34	1193	5	+/-10mm
Tab B*	34	636	5	+/-10mm
Tab C*	34	n/a	5	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	54	423	1	+/-10mm
Tab A*	54	355	5	+/-10mm
Tab B*	54	211	5	+/-10mm



*Bridle (tab) position measuremt:
end of trailing edge to center bridle (tab)

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ABSOLUTE LINE LENGHT

Absolute line length from bottom riser to canopy in mm with 5daN of tension (Manual tolerances +/-10mm)
For scaled sizes: lines are within +/-20mm of the initial size x scale factor

Number	A			A'			B		
	Manual	Glider	Delta	Manual	Glider	Delta	Manual	Glider	Delta
1	7642	7642	0	7612	7612	0	7648	7648	0
2	7512	7512	0	7478	7478	0	7502	7502	0
3	7478	7478	0	7446	7446	0	7441	7441	0
4	7546	7546	0	7514	7514	0	7464	7464	0
5	7460	7460	0	7430	7430	0	7432	7432	0
6	7302	7302	0	7273	7273	0	7280	7280	0
7	7218	7218	0	7191	7191	0	7194	7194	0
8	7239	7239	0	7214	7214	0	7217	7217	0
9	6974	6974	0	6957	6957	0	7004	7004	0
10	6927	6927	0				6962	6962	0
11	6852	6852	0				6864	6864	0
12	6848	6848	0				6855	6855	0
13	6797	6797	0				6814	6814	0
14	6822	6822	0				6830	6830	0
15	6717	6717	0				6748	6748	0
16	6736	6736	0				6777	6777	0

Number	C		
	Manual	Glider	Delta
1	7725	7725	0
2	7586	7586	0
3	7521	7521	0
4	7537	7537	0

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Riser length

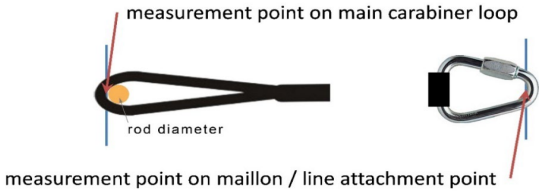
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

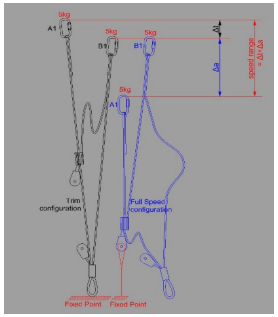
Trimm speed setting	A1	A3	Stabi	B	Δt (= A1-B)	Attachment rod Ø [mm]
Manual	540	536	535	535	15	3
Glider	540	536	530	530	10	3

Full speed setting	Δa (=B-A1)	B-A3	Total speed range (Δt+Δa)
Manual	140	120	140
Glider	142	118	141

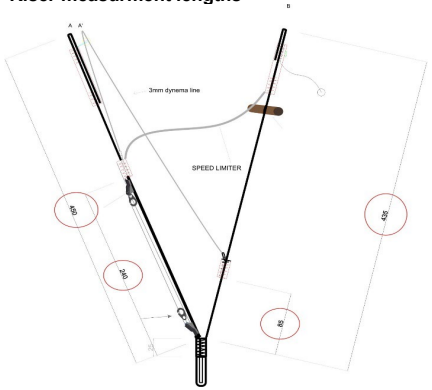
High speed setting	Δa (=B-A1)	Total high speed range > 100	
CCC	100	YES	100
Glider	102	YES	103

Riser measurment points





Riser measurment lengths



Riser drawing (manufacturer)

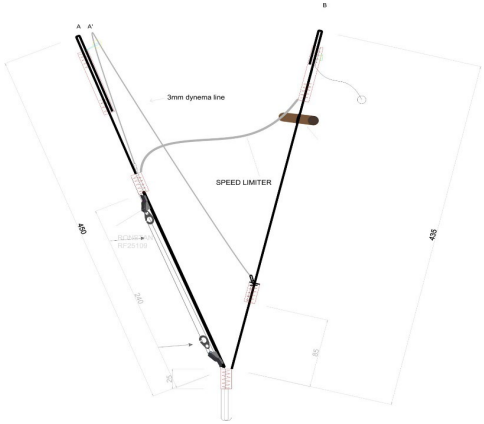


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Table of line materials

Upper

	A		AB		B		C		BR	
1	Elderid	8000-090	Elderid	8000-090	Elderid	8000-050	Elderid	8000-050	Elderid	8000-025
2	Elderid	8000-070	Elderid	8000-050	Elderid		Elderid		Elderid	
3	Elderid		Elderid		Elderid		Elderid		Elderid	
4	Elderid	8000-090	Elderid	8000-090	Elderid		Elderid		Elderid	
5	Elderid	8000-090	Elderid	8000-050	Elderid				Elderid	
6	Elderid	8000-070	Elderid		Elderid				Elderid	
7	Elderid		Elderid		Elderid				Elderid	
8	Elderid	8000-090	Elderid		Elderid				Elderid	
9	Elderid	8000-050			Elderid				Elderid	
10	Elderid				Elderid				Elderid	
11	Elderid				Elderid				Elderid	
12	Elderid				Elderid				Elderid	
13	Elderid				Elderid				Elderid	
14	Elderid				Elderid					
15	Elderid	8000-025			Elderid	8000-025				
16	Elderid				Elderid					

H/middle

	A			B			BR H/Middle	
1	Elderid	8000-130		Elderid	8000-090		Elderid	8000-025
2	Elderid			Elderid			Elderid	
3	Elderid	8000-090		Elderid			Elderid	
4	Elderid			Elderid			Elderid	
5	Elderid			Elderid	8000-050		Elderid	
6	Elderid			Elderid			Elderid	
7	Elderid			Elderid				
8	Elderid			Elderid				
9	Elderid	8000-050		Elderid				
10	Elderid							
11	Elderid							
12	Elderid	8000-025						
13	Elderid							

Middle

	A			B			BR L/Middle	
1	Elderid	8000-190		Elderid	8000-130		Elderid	8000-050
2	Elderid			Elderid			Elderid	
3	Elderid			Elderid				
4	Elderid	8000-130		Elderid	8000-090			
5	Elderid			Elderid				
6	Elderid	8000-130		Elderid	8000-050			
7	Elderid	8000-050						

L/Middle

			B			
1			Elderid	PPSL-160		

Main

	A					BR H/Main	
1	Elderid	8000-360		Elderid	8000-190	Elderid	8000-190
2	Elderid			Elderid	8000-190	BR L/Main	
3	Elderid	8000-190		Elderid	8000-130	Elderid	10N-200

Upper and lower line loop reinforcement:

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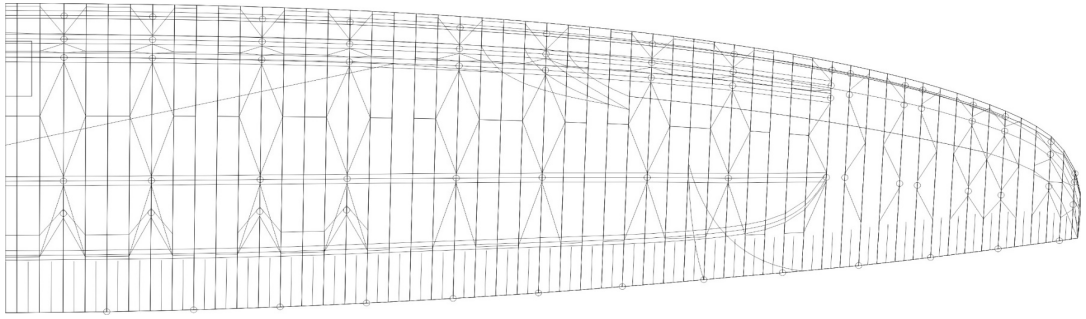
Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)

Vent (Inlet) shape