Fédération Aéronautique Internationale

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

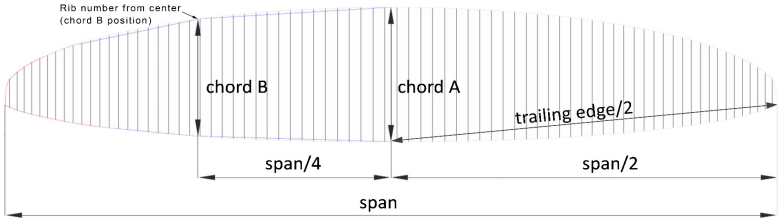
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	FLOW	Size	ML	Test laboratory | Cert. #	n/a
Model	SPECTRA2	Serial #	SP21MRE2101027	Certification date	25/11/2021

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	110	13821	5	2%	7.87	111	1.16953
1/2 Trailing Edge	55	7031	5	1%			
Chord A	1	2233	1	1%			
Chord B	25	1917	1	1%			



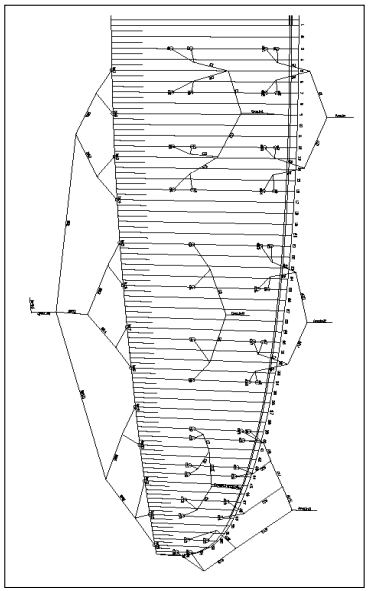
Chord lenght, inlet position, tabs position measured from trailing edge.

(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	2231	1	+/-10mm
Top of inlet	3	2141	5	+/-10mm
Bottom of inlet	3	2119	5	+/-10mm
Tab A*	3	1937	5	+/-10mm
Tab Ab*	3	1755	5	+/-10mm
Tab B*	3	946	5	+/-10mm
Tab C*	3	714	5	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	34	1632	1	+/-10mm
Top of inlet	34	1565	5	+/-10mm
Bottom of inlet	34	1549	5	+/-10mm
Tab Aa*	34	1412	5	+/-10mm
Tab Ab*	34	1260	5	+/-10mm
Tab B*	34	677	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	450	1	+/-10mm
Tab A*	54	378	5	+/-10mm
Tab B*	54	225	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	8140	8140	0	8112	8112	0	8147	8147	0
2	8009	8009	0	7973	7973	0	7991	7991	0
3	7970	7970	0	7939	7939	0	7931	7931	0
4	8043	8043	0	8009	8009	0	7958	7958	0
5	7947	7947	0	7921	7921	0	7933	7933	0
6	7782	7782	0	7753	7753	0	7775	7775	0
7	7695	7695	0	7667	7667	0	7682	7682	0
8	7712	7712	0	7688	7688	0	7702	7702	0
9	7446	7446	0	7426	7426	0	7475	7475	0
10	7394	7394	0				7430	7430	0
11	7310	7310	0				7331	7331	0
12	7310	7310	0				7320	7320	0
13	7257	7257	0				7270	7270	0
14	7278	7278	0				7282	7282	0
15	7164	7164	0				7197	7197	0
16	7183	7183	0				7226	7226	0

Number	C		
	Manual	Glider	Delta
1	8374	8374	0
2	8223	8223	0
3	8160	8160	0
4	8183	8183	0

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Riser length

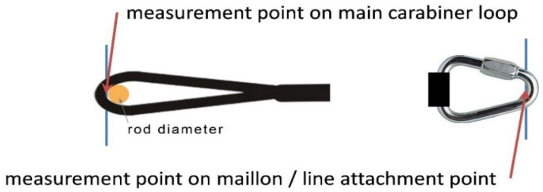
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

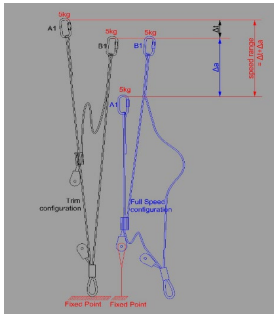
Trimm speed setting	A1	A3	Stabi	B	Δt (= A1-B)	Attachment rod Ø [mm]
Manual	540	536	535	535	15	3
Glider	540	536	530	530	10	3

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

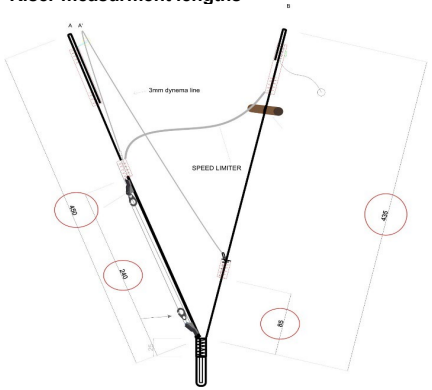
High speed setting	Δa (=B-A1)	Total high speed range > 100	
CCC	100	YES	100
Glider	102	YES	103

Riser measurment points





Riser measurment lengths



Riser drawing (manufacturer)

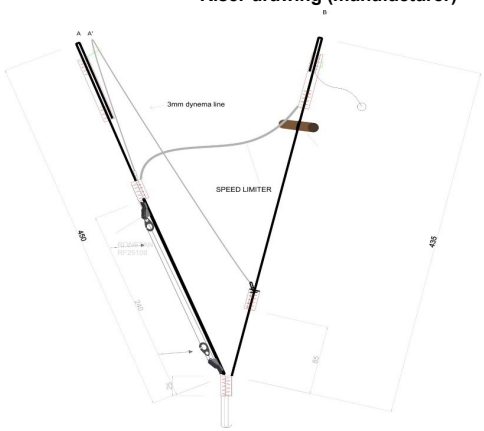


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Table of line materials

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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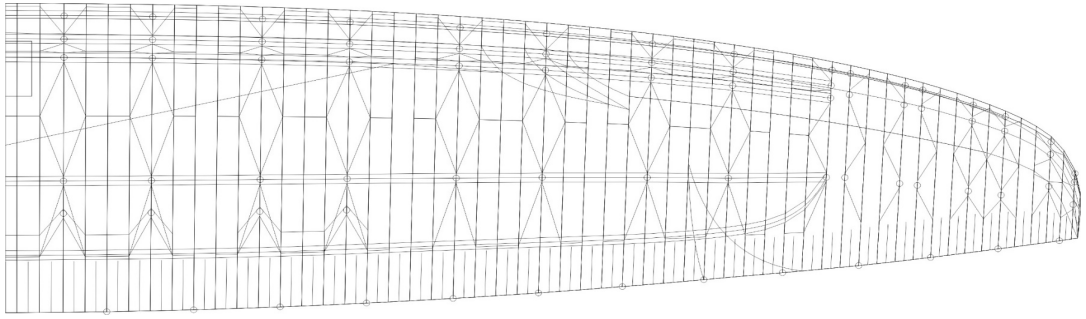
Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)

Vent (Inlet) shape