Fédération Aéronautique Internationale

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

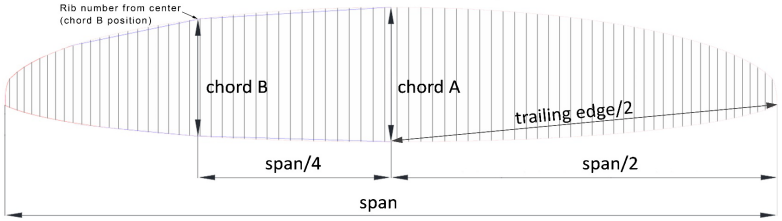
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	**FLOW**	**Size**	**L**	**Test laboratory | Cert. #**	n/a
Model	**SPECTRA2**	**Serial #**	**SP21MRE2101029**	**Certification date**	03/12/2021

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	14282	5	2%	**7.87**	**111**	**1.16953**
1/2 Trailing Edge	55	7270	5	1%			
Chord A	1	2309	1	1%			
Chord B	25	1980	1	1%			



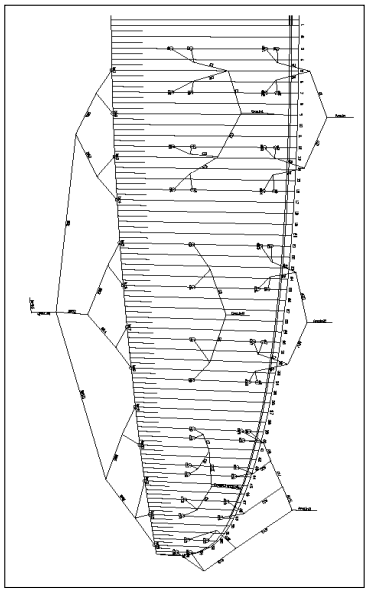
Chord lenght, inlet position, tabs position measured from trailing edge.

(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	2306	1	+/-10mm
Top of inlet	3	2213	5	+/-10mm
Bottom of inlet	3	2190	5	+/-10mm
Tab A*	3	2002	5	+/-10mm
Tab Ab*	3	1814	5	+/-10mm
Tab B*	3	978	5	+/-10mm
Tab C*	3	738	5	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	34	1687	1	+/-10mm
Top of inlet	34	1618	5	+/-10mm
Bottom of inlet	34	1602	5	+/-10mm
Tab Aa*	34	1459	5	+/-10mm
Tab Ab*	34	1312	5	+/-10mm
Tab B*	34	700	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	485	1	+/-10mm
Tab A*	54	408	5	+/-10mm
Tab B*	54	242	5	+/-10mm



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

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

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CIVL CCC 2020 (Version 1.0)

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	8283	8283	0	8240	8240	0	8298	8298	0
2	8147	8147	0	8101	8101	0	8143	8143	0
3	8109	8109	0	8066	8066	0	8080	8080	0
4	8186	8186	0	8143	8143	0	8111	8111	0
5	8081	8081	0	8047	8047	0	8077	8077	0
6	7919	7919	0	7886	7886	0	7920	7920	0
7	7821	7821	0	7790	7790	0	7825	7825	0
8	7842	7842	0	7812	7812	0	7846	7846	0
9	7572	7572	0	7545	7545	0	7621	7621	0
10	7519	7519	0				7573	7573	0
11	7433	7433	0				7474	7474	0
12	7429	7429	0				7462	7462	0
13	7375	7375	0				7411	7411	0
14	7397	7397	0				7419	7419	0
15	7311	7311	0				7346	7346	0
16	7357	7357	0				7403	7403	0

Number	C		
	Manual	Glider	Delta
1	8371	8371	0
2	8219	8219	0
3	8158	8158	0
4	8179	8179	0

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

Measurement Report Template

CIVL CCC 2020 (Version 1.0)

Riser length

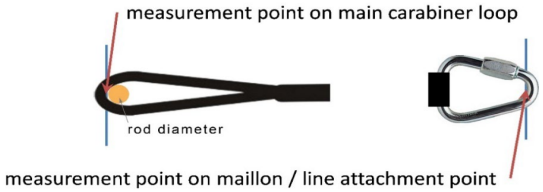
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

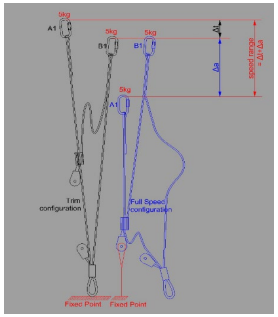
Trimm speed setting	A1	A3	Stabi	B	Δt (= A1-B)	Attachment rod Ø [mm]
Manual	540	536	535	535	15	3
Glider	540	536	530	530	10	3

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

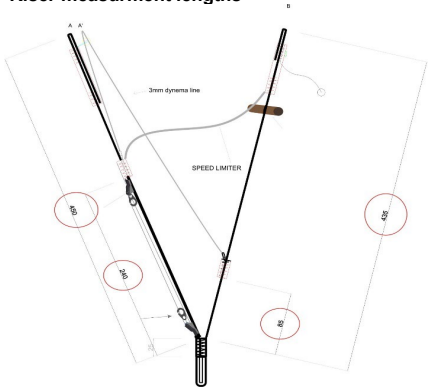
High speed setting	Δa (=B-A1)	Total high speed range > 100	
CCC	100	YES	100
Glider	102	YES	103

Riser measurment points

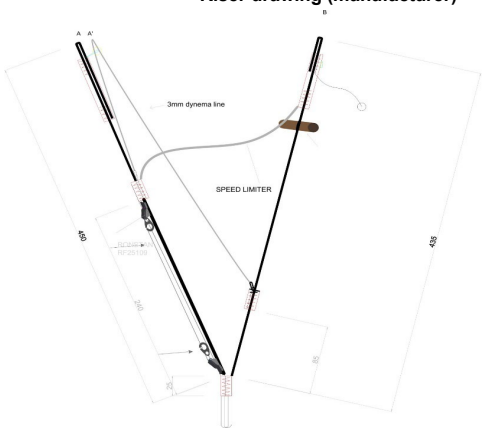




Riser measurment lengths



Riser drawing (manufacturer)



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

Measurement Report Template

CIVL CCC 2020 (Version 1.0)

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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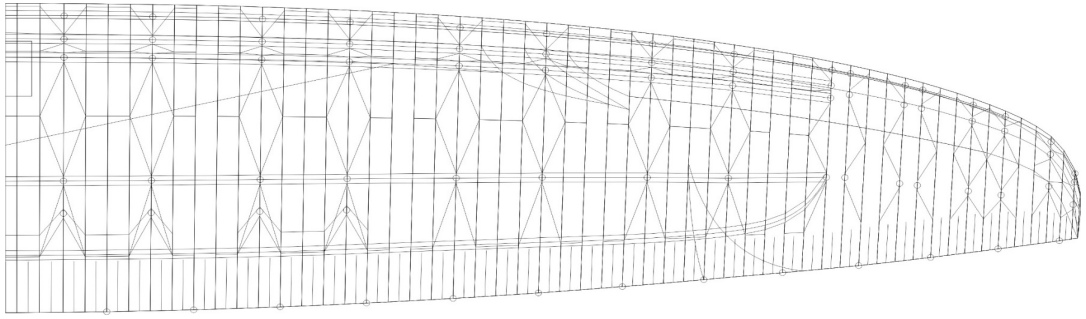
CIVL CCC 2020 (Version 1.0)

Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)

Vent (Inlet) shape