

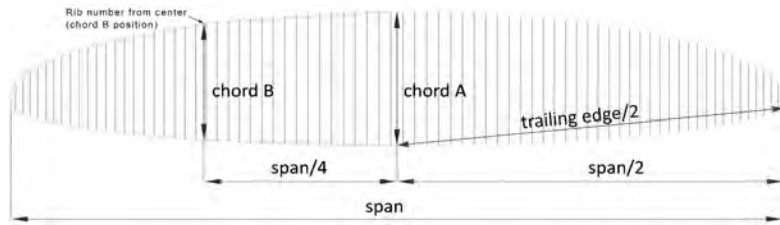
## Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	FLOW	Size	M	Test laboratory   Cert. #	n/a
Model	SPECTRA2	Serial #	SP21MRE2101003	Certification date	23/11/2021

### 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	14084	5	2%	7.87	111	1.16953
1/2 Trailing Edge	55	6947	5	1%			
Chord A	1	2295	1	1%			
Chord B	25	1945	1	1%			



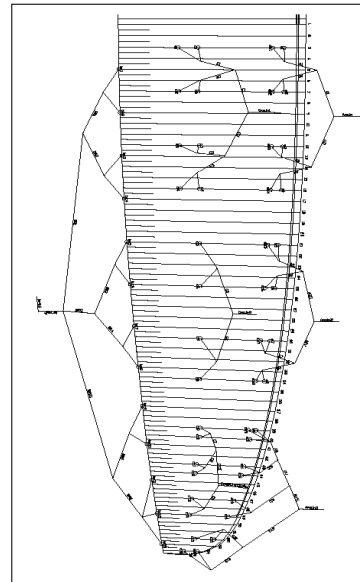
### Chord length, inlet position, tabs position measured from trailing edge.

(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	2230	1	+/-10mm
Top of inlet	3	2135	5	+/-10mm
Bottom of inlet	3	2110	5	+/-10mm
Tab Aa*	3	1910	5	+/-10mm
Tab Ab*	3	1750	5	+/-10mm
Tab B*	3	957	5	+/-10mm
Tab C*	3	722	5	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	21	1980	1	+/-10mm
Top of inlet	21	1901	5	+/-10mm
Bottom of inlet	21	1878	5	+/-10mm
Tab Aa*	21	1693	5	+/-10mm
Tab Ab*	21	1540	5	+/-10mm
Tab B*	21	834	5	+/-10mm
Tab C*	21	n/a	5	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	54	490	1	+/-10mm
Tab A*	54	415	5	+/-10mm
Tab B*	54	259	5	+/-10mm



\*Bridle (tab) position measurement:  
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	7959	7969	10	7925.5	7934	9	7973	7955.5	1.2
2	7831	7834.5	4	7796	7801	5	7821	7804	6.8
3	7794.5	7797	3	7761.5	7759	-3	7758	7740.5	3.8
4	7866.5	7865	-2	7838	7838	0	7783	7774.5	4.3
5	7755.5	7763	8	7731	7736	5	7750	7722.5	-3.7
6	7586	7591.8	6	7560	7565	5	7583	7567	-5.8
7	7493	7489.8	-3	7468.5	7466	-2	7482	7476	-0.1
8	7501	7496.3	-5	7481	7482	1	7505	7492.5	-1
9	7231	7225.1	-6	7216	7210		7254	7278.5	-5.6
10	7180.5	7175.1	-5				7207	7229	-1.4
11	7101	7096.3	-5				7109	7140	1
12	7098	7098.1	0				7098	7128	1.4
13	7043	7041.7	-1				7049	7069	-3.5
14	7056	7058.5	3				7056	7069	0.4
15	6938	6947.1	9				6968	6961	5.2
16	6939	6946	7				6986	6985	1.2

Number	C		
	Manual	Glider	Delta
1	8042	8050	8
2	7901.5	7910	9
3	7836	7843	7
4	7857.5	7864	7





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Table of line materials										
<b>Upper</b>										
	<b>A</b>		<b>AB</b>		<b>B</b>		<b>C</b>		<b>BR</b>	
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			
4	Elderid	8000-090	Elderid	8000-090	Elderid		Elderid		Elderid	
5	Elderid	8000-090	Elderid	8000-050	Elderid		Elderid	Elderid		
6	Elderid	8000-070	Elderid		Elderid		Elderid	Elderid		
7	Elderid		Elderid		Elderid		Elderid	Elderid		
8	Elderid	8000-090	Elderid		Elderid		Elderid	Elderid		
9	Elderid	8000-050			Elderid		Elderid	Elderid	Elderid	
10	Elderid				Elderid		Elderid	Elderid		
11	Elderid				Elderid		Elderid	Elderid		
12	Elderid				Elderid		Elderid	Elderid		
13	Elderid			Elderid	Elderid		Elderid			
14	Elderid			Elderid	Elderid		Elderid			
15	Elderid	8000-025		Elderid	8000-025		Elderid			
16	Elderid			Elderid			Elderid			
<b>H/middle</b>										
	<b>A</b>		<b>B</b>		<b>BR H/Middle</b>					
1	Elderid	8000-130		Elderid	8000-090	Elderid	8000-025			
2	Elderid			Elderid		Elderid				
3	Elderid	Elderid		Elderid						
4	Elderid	Elderid		Elderid						
5	Elderid	8000-090		Elderid	8000-050	Elderid				
6	Elderid			Elderid		Elderid				
7	Elderid			Elderid		Elderid				
8	Elderid			Elderid		Elderid				
9	Elderid			Elderid		Elderid				
10	Elderid			8000-050		Elderid				
11	Elderid					Elderid				
12	Elderid					Elderid				
13	Elderid	8000-025		Elderid						
<b>Middle</b>										
	<b>A</b>			<b>B</b>		<b>BR L/Middle</b>				
1	Elderid	8000-190			Elderid	8000-130	Elderid	8000-050		
2	Elderid		Elderid		Elderid					
3	Elderid		Elderid		Elderid					
4	Elderid		8000-130		Elderid	8000-090	Elderid			
5	Elderid				Elderid		Elderid			
6	Elderid				8000-130		Elderid	8000-050		
7	Elderid				8000-050		Elderid			
<b>L/Middle</b>										
	<b>A</b>		<b>B</b>							
1				Elderid	PPSL-160					
<b>Main</b>										
	<b>A</b>		<b>B</b>		<b>BR H/Main</b>					
1	Elderid	8000-360		Elderid	8000-190	Elderid	8000-190			
2	Elderid			Elderid	8000-190	<b>BR L/Main</b>				
3	Elderid	8000-190	Elderid	8000-130	Elderid	10N-200				

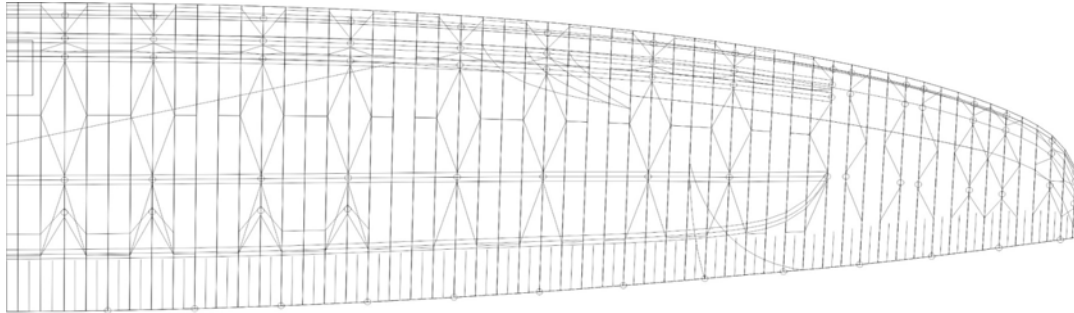
Upper and lower line loop reinforcement:

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### Drawings and pictures

**Diagonals, Hstraps and Mini Ribs (top view)**



**Diagonals (Front view)**



**Vent (Inlet) shape**

