Fédération Aéronautique Internationale

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

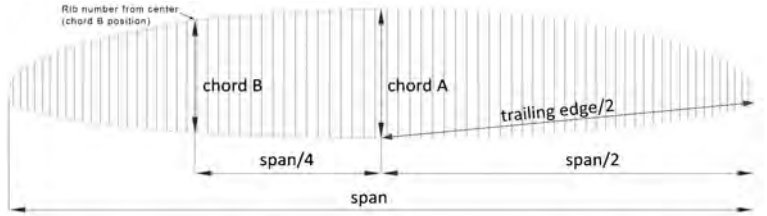
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	**FLOW**	**Size**	**XL**	**Test laboratory | Cert. #**	n/a
Model	**SPECTRA2**	**Serial #**	**SP2XBLE2201033**	**Certification date**	28/12/2021

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	14513	5	2%	**7.87**	**111**	**1.16953**
1/2 Trailing Edge	55	7299	5	1%			
Chord A	1	2320	1	1%			
Chord B	25	1999	1	1%			



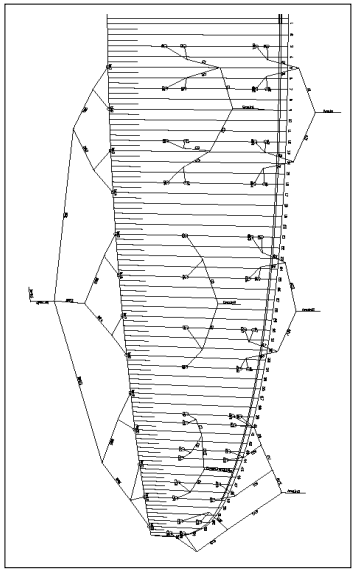
Chord lenght, inlet position, tabs position measured from trailing edge.

(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	2325	1	+/-10mm
Top of inlet	3	2226	5	+/-10mm
Bottom of inlet	3	2198	5	+/-10mm
Tab A*	3	2004	5	+/-10mm
Tab Ab*	3	1816	5	+/-10mm
Tab B*	3	979	5	+/-10mm
Tab C*	3	740	5	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	34	1698	1	+/-10mm
Top of inlet	34	1622	5	+/-10mm
Bottom of inlet	34	1609	5	+/-10mm
Tab Aa*	34	1460	5	+/-10mm
Tab Ab*	34	1315	5	+/-10mm
Tab B*	34	705	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	465	1	+/-10mm
Tab A*	54	391	5	+/-10mm
Tab B*	54	232	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	8413	8413	0	8376	8376	0	8429	8429	0
2	8274	8274	0	8241	8241	0	8272	8272	0
3	8235	8235	0	8207	8207	0	8212	8212	0
4	8310	8310	0	8283	8283	0	8241	8241	0
5	8203	8203	0	8184	8184	0	8222	8222	0
6	8044	8044	0	8021	8021	0	8057	8057	0
7	7944	7944	0	7923	7923	0	7961	7961	0
8	7964	7964	0	7942	7942	0	7978	7978	0
9	7679	7679	0	7664	7664	0	7729	7729	0
10	7625	7625	0				7682	7682	0
11	7540	7540	0				7580	7580	0
12	7540	7540	0				7569	7569	0
13	7483	7483	0				7517	7517	0
14	7512	7512	0				7534	7534	0
15	7450	7450	0				7488	7488	0
16	7485	7485	0				7533	7533	0

Number	C		
	Manual	Glider	Delta
1	8516	8516	0
2	8364	8364	0
3	8302	8302	0
4	8326	8326	0

Number	brake		
	Manual	glider	Delta
1	8607	8607	0
2	8376	8376	0
3	8266	8266	0
4	8259	8259	0
5	8089	8089	0
6	7886	7886	0
7	7793	7793	0
8	7806	7806	0
9	7672	7672	0
10	7562	7562	0
11	7485	7485	0
12	7506	7506	0
13	7687	7687	0

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Riser length

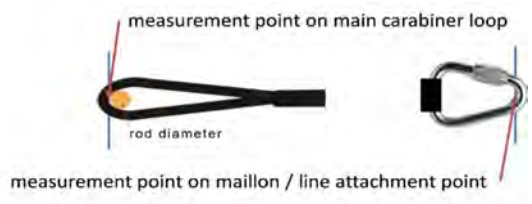
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

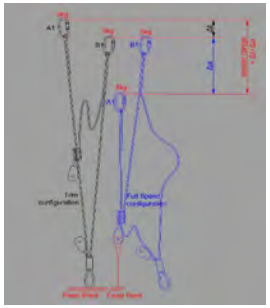
Trimm speed setting	A1	A3	Stabi	B	Δt (= A1-B)	Attachment rod Ø [mm]
Manual	540	536	535	535	15	3
Glider	540	536	530	530	10	3

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

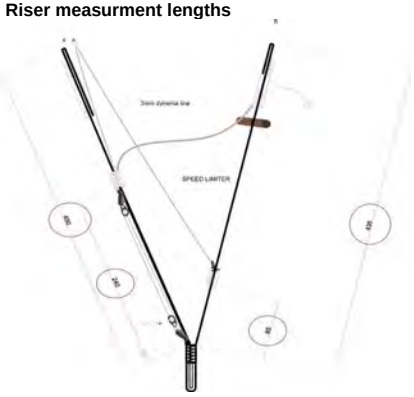
High speed setting	Δa (=B-A1)	Total high speed range > 100	
CCC	100	YES	100
Glider	102	YES	103

Riser measurment points





Riser measurment lengths



Riser drawing (manufacturer)

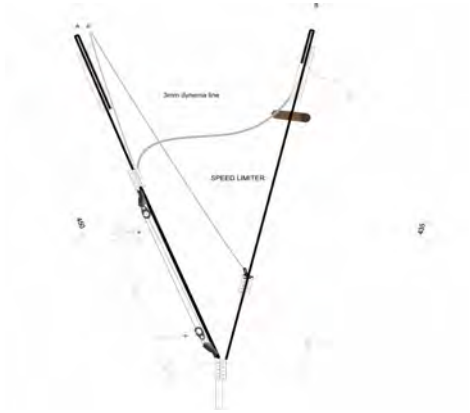


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Table of line materials

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	8000-090		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			Elderid	
4	Elderid	8000-190		Elderid	8000-130			
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	8000-230		Elderid	8000-190
2	Elderid			Elderid	8000-190		BR L/Main	
3	Elderid	8000-230		Elderid	8000-130		Elderid	10N-200

Upper and lower line loop reinforcement:

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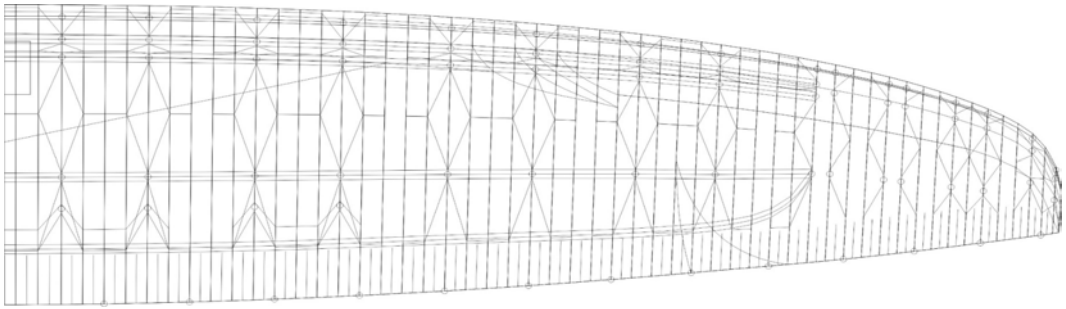
Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)

Vent (Inlet) shape