

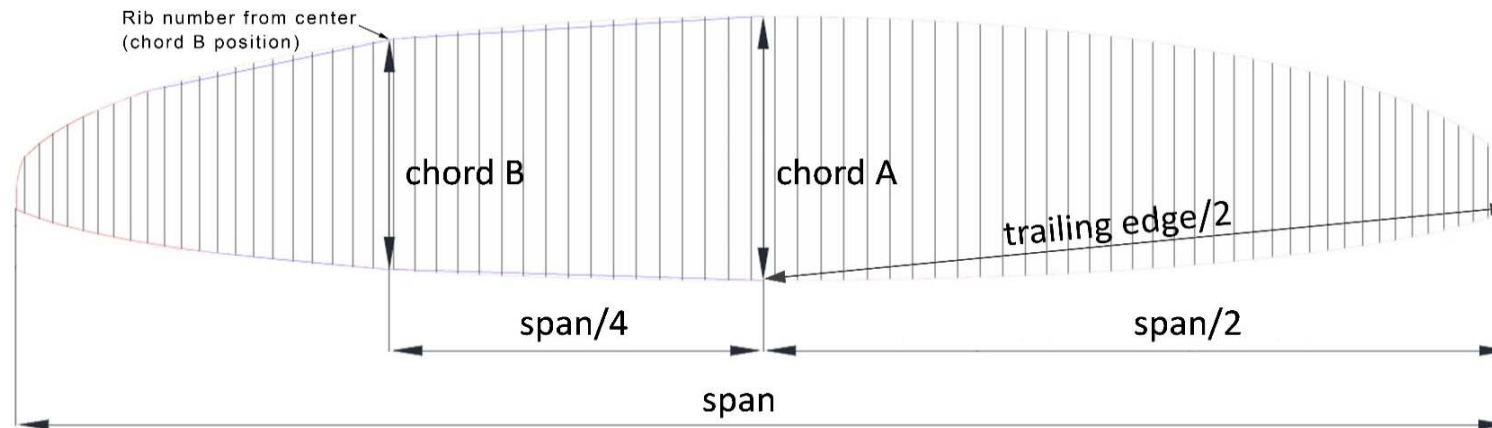
## Measurement Report Template

CIVL CCC 2020 (Version 1.1)

<b>Brand</b>	Gin Gliders Inc.	<b>Size</b>	S	<b>Test laboratory   Cert. #</b>	DHV
<b>Model</b>	Boomerang 12 (2022)	<b>Serial #</b>	BK08-Q8200290P	<b>Certification date</b>	22.03.2022

### Canopy dimensions

Position	Rib # from center	Distance [mm]	Tension [daN]	Manual tolerances	Aspect ratio $4 \cdot \text{span} / (\text{chord A} + 2.5 \cdot \text{Chord B})$	Number cells	Scale factor
Full Span		12561	5	+/-2%	7,52	105	1,00
1/2 Trailing Edge		6401	5	+/-1%			
Chord A		2037	1	+/-1%			
Chord B	23	1856	1	+/-1%			



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

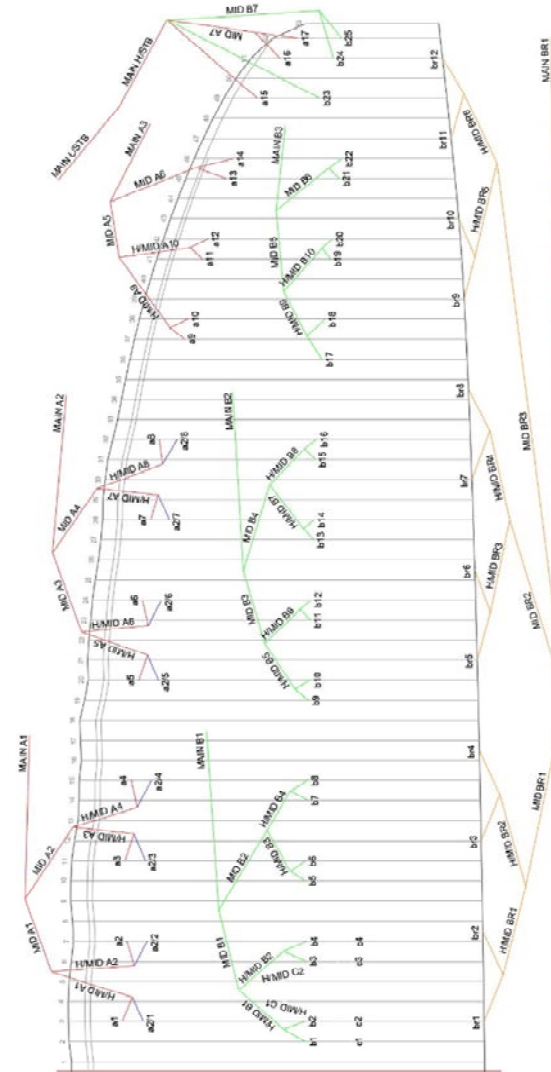
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2066	1	+/-1%
Top of inlet	2	1989	1	+/-1%
Bottom of inlet	2	1958	1	+/-1%
Tab Aa*	3	1818	1	+/-10mm
Tab Ab*	3	1710	1	+/-10mm
Tab B*	2	898	1	+/-10mm
Tab C*	2	670	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1635	1	+/-1%
Top of inlet	32	1570	1	+/-1%
Bottom of inlet	32	1554	1	+/-1%
Tab Aa*	32	1426	1	+/-10mm
Tab Ab*	32	1346	1	+/-10mm
Tab B*	32	713	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	643	1	+/-1%
Tab A*	52	548	1	+/-10mm
Tab B*	52	378	1	+/-10mm

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





**Measurement Report Template**  
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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	A1			A2			B		
	Glider	Manual	Delta	Glider	Manual	Delta	Glider	Manual	Delta
25							6980	6983	-3
24							6974	6977	-3
23							7048	7045	3
22							7209	7207	2
21							7215	7211	4
20							7266	7268	-2
19							7277	7279	-2
18							7364	7368	-4
17	6985	6981	4				7459	7458	1
16	6982	6980	2				7634	7629	5
15	7054	7054	0				7611	7608	3
14	7193	7191	2				7608	7603	5
13	7191	7195	-4				7619	7623	-4
12	7259	7258	1				7682	7680	2
11	7275	7273	2				7691	7689	2
10	7380	7381	-1				7796	7791	5
9	7430	7428	2				7840	7845	-5
8	7628	7626	2	7615	7612	3	7910	7916	-6
7	7635	7630	5	7612	7609	3	7889	7886	3
6	7703	7699	4	7685	7681	4	7862	7858	4
5	7839	7840	-1	7819	7818	1	7869	7872	-3
4	7928	7931	-3	7905	7908	-3	7900	7905	-5
3	7890	7892	-2	7868	7870	-2	7913	7913	0
2	7931	7932	-1	7912	7910	2	8002	8005	-3
1	8052	8051	1	8028	8026	2	8059	8062	-3
1	8053	8051	2	8027	8026	1	8058	8062	-4
2	7934	7932	2	7916	7910	6	8001	8005	-4
3	7895	7892	3	7875	7870	5	7915	7913	2
4	7930	7931	-1	7905	7908	-3	7901	7905	-4
5	7840	7840	0	7816	7818	-2	7878	7872	6
6	7701	7699	2	7684	7681	3	7862	7858	4
7	7634	7630	4	7612	7609	3	7890	7886	4
8	7620	7626	-6	7609	7612	-3	7911	7916	-5
9	7428	7428	0				7841	7845	-4
10	7384	7381	3				7793	7791	2
11	7272	7273	-1				7694	7689	5
12	7259	7258	1				7688	7680	8
13	7196	7195	1				7628	7623	5
14	7194	7191	3				7603	7603	0
15	7052	7054	-2				7607	7608	-1
16	6984	6980	4				7634	7629	5
17	6985	6981	4				7455	7458	-3
18							7365	7368	-3
19							7276	7279	-3
20							7264	7268	-4
21							7219	7211	8
22							7206	7207	-1
23							7041	7045	-4
24							6972	6977	-5
25							6982	6983	-1

Number	C		
	Glider	Manual	Delta
4	7956	7951	5
3	7961	7965	-4
2	8042	8049	-7
1	8106	8105	1
1	8104	8105	-1
2	8042	8049	-7
3	7962	7965	-3
4	7956	7951	5

# Measurement Report Template

## CIVL CCC 2020 (Version 1.0)

### Riser length

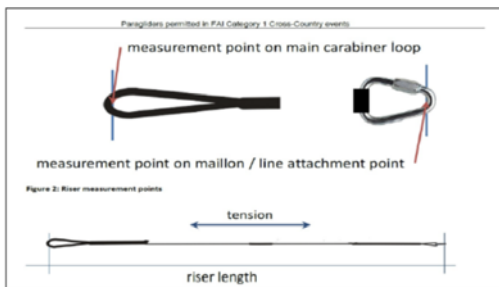
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	$\Delta t$ (= A1-B)	Attachment rod $\varnothing$ [mm]
Manual	520	485	505	520	0	10
Glider	518	486	507	519	1	

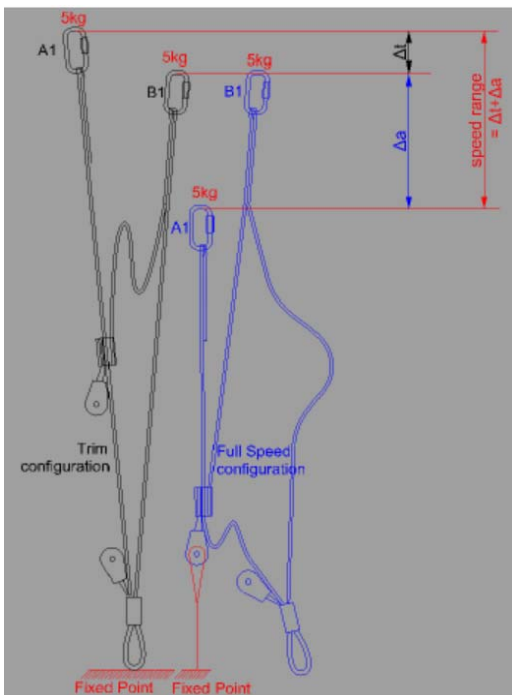
Full speed setting	$\Delta a$ (=B-A)	B-A'	Total speed range ( $\Delta t + \Delta a$ )
Manual	142	125	142
Glider	143	128	144

High speed setting	$\Delta a$ (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	103	104

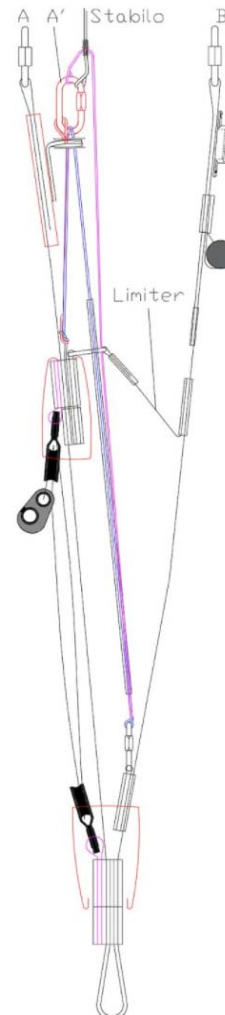
#### Riser measurement points



#### Riser measurement lengths



#### Riser drawing (manufacturer)



## Measurement Report Template

### CIVL CCC 2020 (Version 1.0)

**Table of line materials**

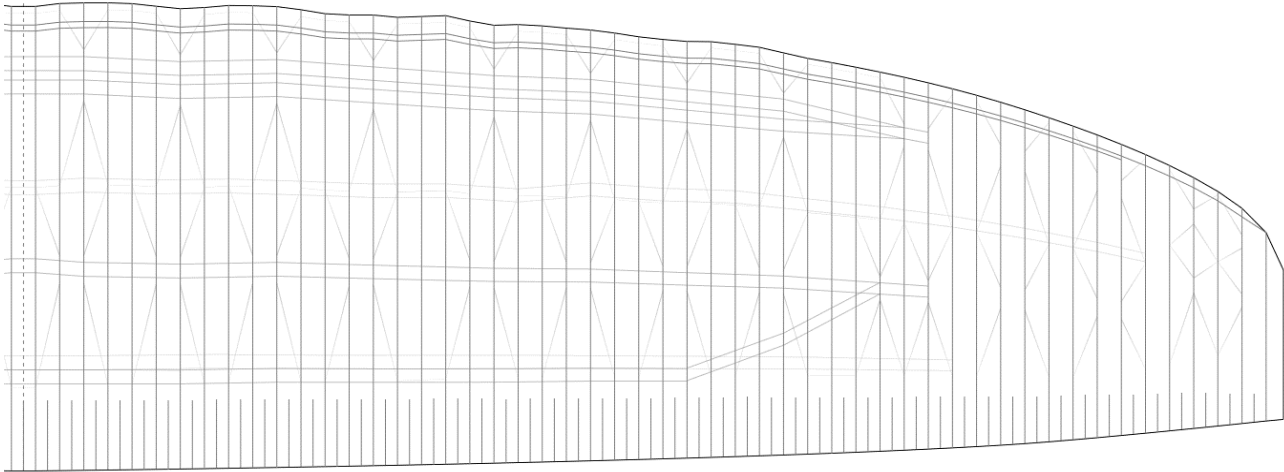
Table of line materials											
Upper											
	A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
4	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
5	Edlerid	8001-090	Edlerid		Edlerid		Edlerid	Edlerid			
6	Edlerid	8001-070	Edlerid		Edlerid		Edlerid	Edlerid			
7	Edlerid	8001-070	Edlerid		Edlerid		Edlerid	Edlerid			
8	Edlerid	8001-070	Edlerid		Edlerid		Edlerid	Edlerid			
9	Edlerid	8001-050			Edlerid		8001-050	Edlerid			Edlerid
10	Edlerid				Edlerid			Edlerid			
11	Edlerid				Edlerid	Edlerid					
12	Edlerid				Edlerid	Edlerid					
13	Edlerid	Edlerid			Edlerid						
14	Edlerid	Edlerid			Edlerid						
15	Edlerid	8000-025			Edlerid	Edlerid					
16	Edlerid				Edlerid	Edlerid					
17	Edlerid				Edlerid	Edlerid					
18					Edlerid	Edlerid					
19			Edlerid	Edlerid							
20			Edlerid	Edlerid							
21			Edlerid	Edlerid							
22			Edlerid	Edlerid							
23			Edlerid	Edlerid							
24			Edlerid	Edlerid							
25			Edlerid	Edlerid							
H/middle											
	A		B		BR H/Middle						
1	Edlerid	8001-130		Edlerid	8001-050	Edlerid	8001-025				
2	Edlerid			Edlerid		Edlerid					
3	Edlerid			Edlerid		Edlerid					
4	Edlerid			Edlerid		Edlerid					
5	Edlerid	8001-090		Edlerid		Edlerid					
6	Edlerid			Edlerid		Edlerid					
7	Edlerid			Edlerid		Edlerid					
8	Edlerid			Edlerid		Edlerid					
9	Edlerid	8001-070		Edlerid		Edlerid					
10	Edlerid			Edlerid		Edlerid					
Middle											
	A		B		BR L/Middle						
1	Edlerid	8001-190		Edlerid	8001-090	Edlerid	8001-050				
2	Edlerid			Edlerid		Edlerid					
3	Edlerid			Edlerid		Edlerid					
4	Edlerid			Edlerid		Edlerid					
5	Edlerid			8001-090		Edlerid		8001-070			
6	Edlerid			8001-050		Edlerid		8001-050			
7	Edlerid			8001-025		Edlerid		8001-025			
Main											
	A		B		BR H/Main						
1	Edlerid	8001-340		Edlerid	8001-190	Edlerid	8001-090				
2	Edlerid			Edlerid	8001-190	<b>BR L/Main</b>					
3	Edlerid			8001-190	Edlerid	8001-090	GIN	TGL220			
STB H/Main	Edlerid	8001-070									
STB L/Main	Liros	PSSL-065									

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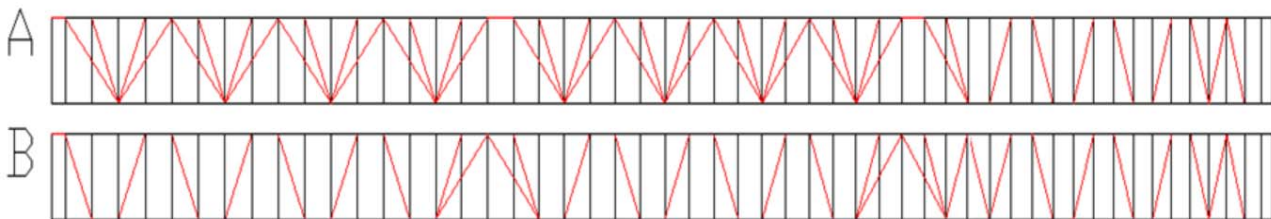
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## Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

