

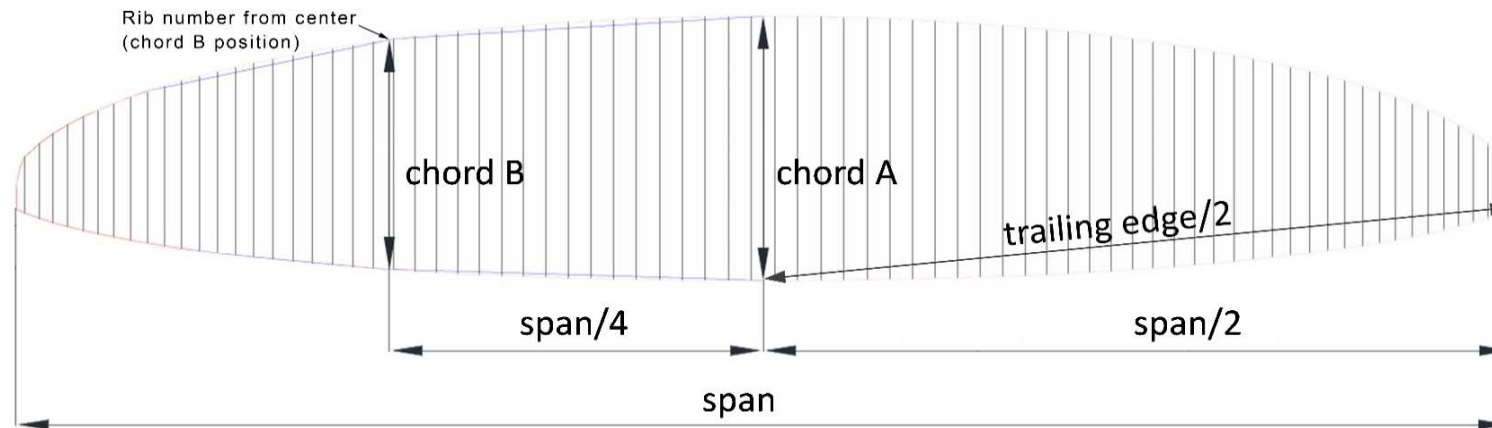
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	ML	Test laboratory Cert. #	n/a
Model	Boomerang 12 (2022)	Serial #	BK08-Q8200287P	Certification date	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		13378	5	+/-2%	7,54	105	1,06
1/2 Trailing Edge		6811	5	+/-1%			
Chord A		2165	1	+/-1%			
Chord B	23	1972	1	+/-1%			



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

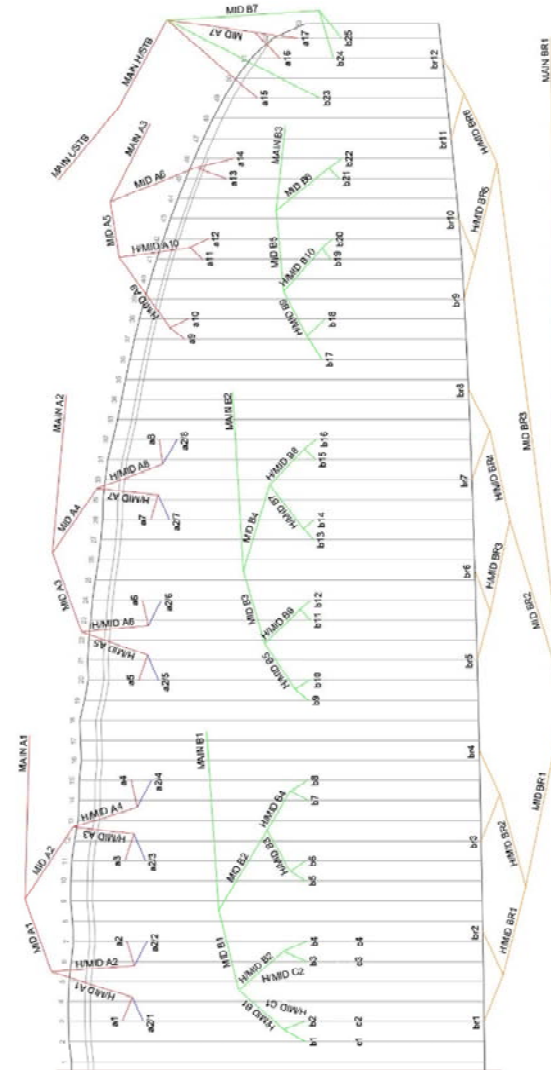
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2195	1	+/-1%
Top of inlet	2	2114	1	+/-1%
Bottom of inlet	2	2080	1	+/-1%
Tab Aa*	3	1933	1	+/-10mm
Tab Ab*	3	1818	1	+/-10mm
Tab B*	2	954	1	+/-10mm
Tab C*	2	712	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1738	1	+/-1%
Top of inlet	32	1669	1	+/-1%
Bottom of inlet	32	1651	1	+/-1%
Tab Aa*	32	1515	1	+/-10mm
Tab Ab*	32	1430	1	+/-10mm
Tab B*	32	757	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	683	1	+/-1%
Tab A*	52	582	1	+/-10mm
Tab B*	52	401	1	+/-10mm

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





Measurement Report Template
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	A1			A2			B		
	Glider	Manual	Delta	Glider	Manual	Delta	Glider	Manual	Delta
25							7443	7442	1
24							7450	7445	5
23							7512	7519	-7
22							7697	7688	9
21							7702	7693	9
20							7750	7753	-3
19							7760	7765	-5
18							7857	7858	-1
17	7436	7434	2				7945	7950	-5
16	7447	7447	0				8127	8128	-1
15	7529	7527	2				8109	8107	2
14	7677	7671	6				8102	8100	2
13	7685	7676	9				8115	8120	-5
12	7750	7743	7				8172	8178	-6
11	7759	7759	0				8178	8187	-9
10	7878	7870	8				8286	8292	-6
9	7924	7920	4				8347	8348	-1
8	8128	8127	1	8114	8111	3	8421	8421	0
7	8128	8129	-1	8109	8106	3	8391	8390	1
6	8202	8200	2	8186	8179	7	8363	8359	4
5	8349	8344	5	8329	8320	9	8372	8373	-1
4	8435	8438	-3	8423	8413	10	8402	8405	-4
3	8401	8395	6	8383	8371	12	8412	8414	-3
2	8441	8435	6	8426	8411	15	8509	8509	0
1	8567	8558	9	8539	8531	8	8571	8567	4
1	8558	8558	0	8534	8531	3	8572	8567	5
2	8445	8435	10	8422	8411	11	8515	8509	6
3	8404	8395	9	8382	8371	11	8416	8414	2
4	8446	8438	8	8423	8413	10	8411	8405	6
5	8352	8344	8	8326	8320	6	8374	8373	1
6	8209	8200	9	8191	8179	12	8361	8359	2
7	8137	8129	8	8115	8106	9	8389	8390	-2
8	8134	8127	7	8120	8111	9	8424	8421	3
9	7924	7920	4				8343	8348	-5
10	7873	7870	3				8288	8292	-4
11	7761	7759	2				8185	8187	-2
12	7751	7743	8				8178	8178	0
13	7686	7676	10				8118	8120	-2
14	7679	7671	8				8101	8100	1
15	7532	7527	5				8107	8107	0
16	7451	7447	4				8127	8128	-1
17	7442	7434	8				7950	7950	0
18							7861	7858	3
19							7770	7765	5
20							7757	7753	4
21							7701	7693	8
22							7696	7688	8
23							7513	7519	-6
24							7454	7445	9
25							7450	7442	8

Number	C		
	Glider	Manual	Delta
4	8452	8453	-1
3	8469	8468	1
2	8552	8555	-3
1	8614	8613	1
1	8614	8613	1
2	8559	8555	4
3	8473	8468	5
4	8459	8453	6

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Riser length

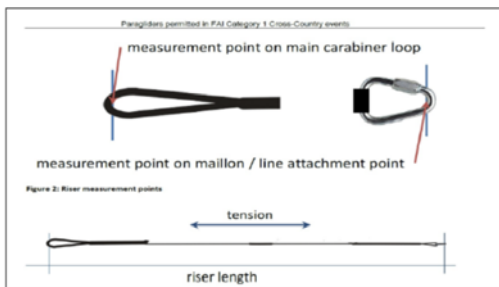
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	485	505	520	0	10
Glider	519	487	508	517	-2	

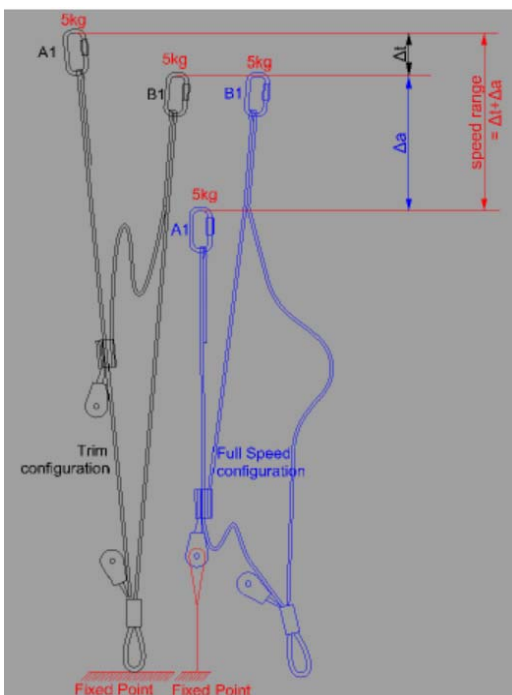
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	141	128	139

High speed setting	Δa (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	105	103

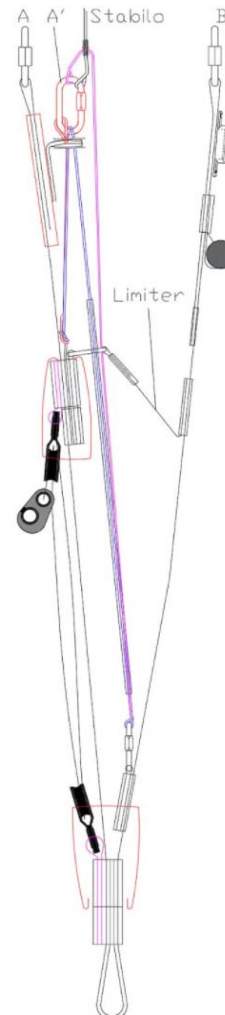
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



Measurement Report Template

CIVL CCC 2020 (Version 1.0)

Table of line materials

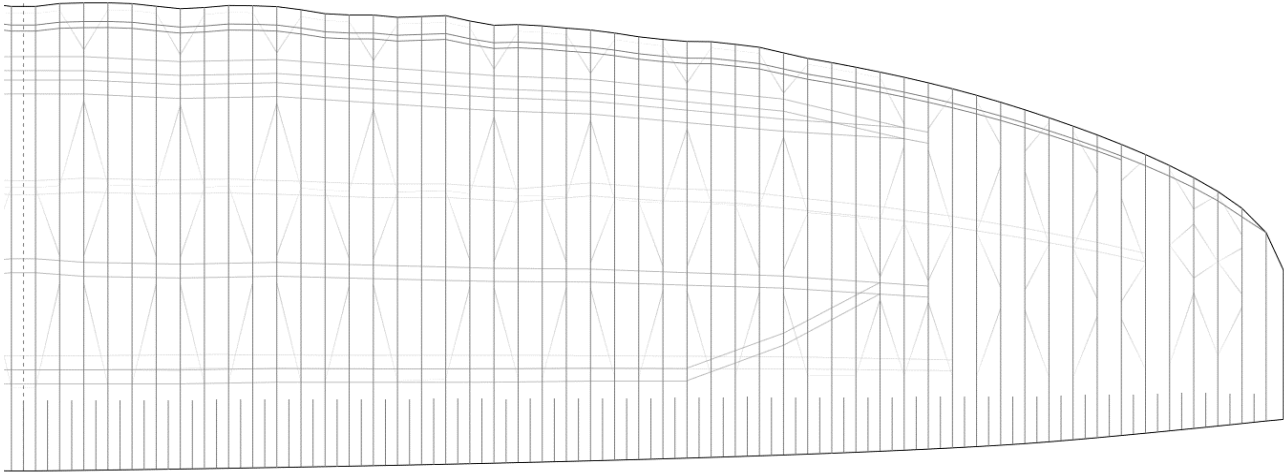
Table of line materials											
Upper											
	A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
4	Edlerid	8001-070	Edlerid		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		Edlerid	Edlerid		
16	Edlerid				Edlerid	Edlerid		Edlerid	Edlerid		
17	Edlerid				Edlerid	Edlerid		Edlerid	Edlerid		
18					Edlerid	8000-025		Edlerid	Edlerid		
19			Edlerid	Edlerid	Edlerid						
20			Edlerid	Edlerid	Edlerid						
21			Edlerid	Edlerid	Edlerid						
22			Edlerid	Edlerid	Edlerid						
23			Edlerid	Edlerid	Edlerid						
24			Edlerid	Edlerid	Edlerid						
25			Edlerid	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	8001-090			Edlerid	8001-050	Edlerid		Edlerid		
5	Edlerid				Edlerid		Edlerid				
6	Edlerid				Edlerid		Edlerid				
7	Edlerid				Edlerid		Edlerid				
8	Edlerid	8001-070			Edlerid		Edlerid	Edlerid	Edlerid		
9	Edlerid				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				
3	Edlerid				8001-190		Edlerid		8001-090		
STB H/Main	Edlerid	8001-070					GIN	TGL220			
STB L/Main	Liros	PSSL-065									

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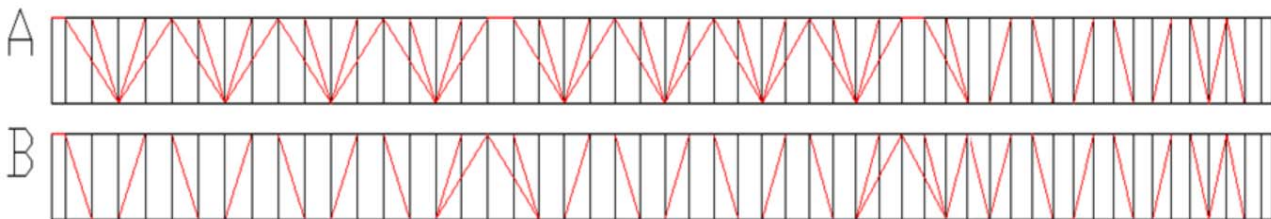
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

