

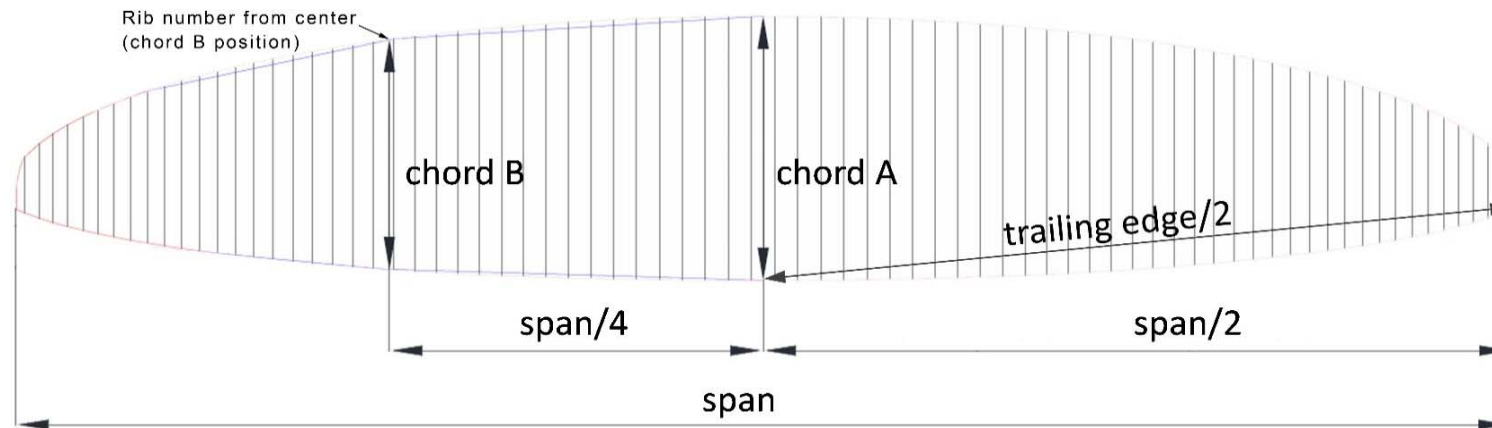
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	L	Test laboratory Cert. #	n/a
Model	Boomerang 12 (2022)	Serial #	BK08-Q8200289P	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		13819	5	+/-2%	7,55	105	1,10
1/2 Trailing Edge		7030	5	+/-1%			
Chord A		2235	1	+/-1%			
Chord B	23	2036	1	+/-1%			



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

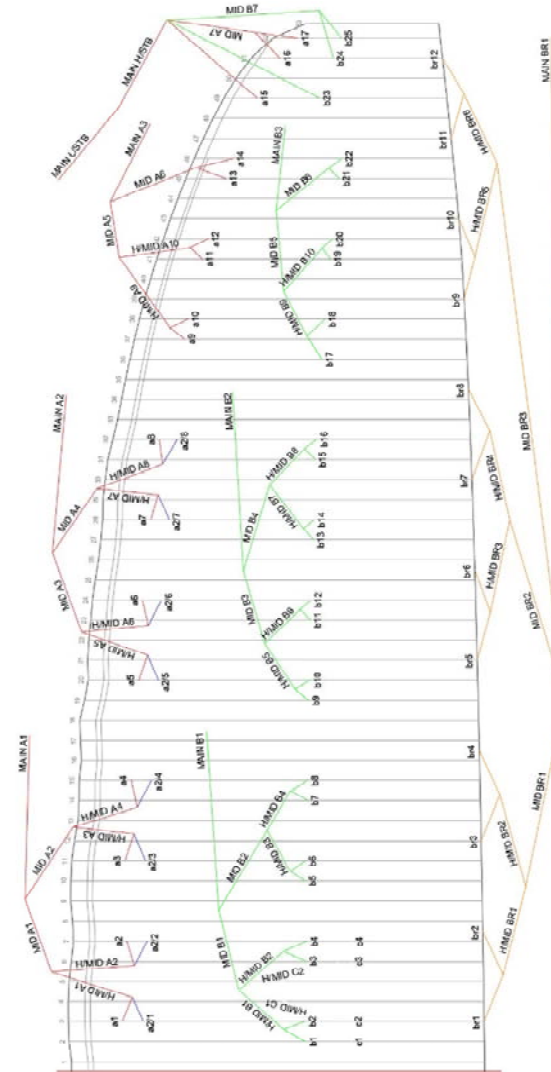
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2267	1	+/-1%
Top of inlet	2	2182	1	+/-1%
Bottom of inlet	2	2148	1	+/-1%
Tab Aa*	3	1996	1	+/-10mm
Tab Ab*	3	1878	1	+/-10mm
Tab B*	2	985	1	+/-10mm
Tab C*	2	735	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1794	1	+/-1%
Top of inlet	32	1723	1	+/-1%
Bottom of inlet	32	1705	1	+/-1%
Tab Aa*	32	1565	1	+/-10mm
Tab Ab*	32	1477	1	+/-10mm
Tab B*	32	782	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	705	1	+/-1%
Tab A*	52	601	1	+/-10mm
Tab B*	52	414	1	+/-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	A1			A2			B		
	Glider	Manual	Delta	Glider	Manual	Delta	Glider	Manual	Delta
25							7690	7685	5
24							7697	7691	6
23							7760	7768	-8
22							7945	7942	3
21							7956	7948	8
20							8011	8010	1
19							8026	8023	3
18							8126	8119	7
17	7684	7677	7				8217	8214	3
16	7697	7692	5				8393	8396	-3
15	7779	7776	3				8371	8375	-4
14	7935	7925	10				8368	8369	-1
13	7940	7931	9				8385	8389	-4
12	8006	8000	6				8440	8448	-9
11	8025	8016	9				8459	8458	1
10	8136	8132	4				8566	8565	1
9	8193	8183	10				8625	8622	3
8	8395	8395	0	8380	8379	1	8699	8697	2
7	8395	8398	-4	8376	8375	1	8667	8665	2
6	8473	8471	2	8458	8450	8	8636	8633	3
5	8620	8619	1	8597	8594	3	8650	8647	3
4	8714	8715	-1	8688	8690	-2	8678	8680	-2
3	8666	8671	-5	8649	8646	3	8684	8689	-5
2	8717	8713	4	8694	8687	7	8780	8786	-6
1	8842	8837	5	8816	8809	7	8837	8845	-8
1	8839	8837	2	8814	8809	5	8838	8845	-7
2	8719	8713	6	8696	8687	9	8785	8786	-1
3	8670	8671	-1	8651	8646	5	8688	8689	-1
4	8715	8715	-1	8692	8690	2	8680	8680	0
5	8624	8619	5	8598	8594	4	8653	8647	6
6	8478	8471	7	8457	8450	7	8640	8633	7
7	8400	8398	2	8379	8375	4	8672	8665	7
8	8396	8395	1	8386	8379	7	8705	8697	8
9	8183	8183	0				8626	8622	4
10	8138	8132	6				8569	8565	4
11	8024	8016	8				8464	8458	6
12	8009	8000	9				8453	8448	5
13	7940	7931	9				8393	8389	4
14	7936	7925	11				8377	8369	8
15	7779	7776	3				8381	8375	6
16	7696	7692	4				8401	8396	5
17	7679	7677	2				8223	8214	9
18							8128	8119	9
19							8031	8023	8
20							8017	8010	7
21							7957	7948	9
22							7952	7942	10
23							7760	7768	-8
24							7699	7691	8
25							7689	7685	4

Number	C		
	Glider	Manual	Delta
4	8724	8730	-6
3	8741	8744	-3
2	8834	8833	1
1	8890	8892	-3
1	8893	8892	1
2	8834	8833	1
3	8735	8744	-9
4	8724	8730	-6

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Riser length

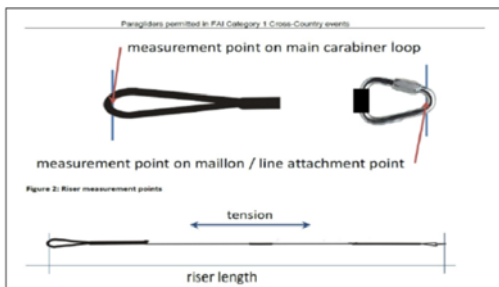
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	485	505	520	0	10
Glider	520	487	507	519	-1	

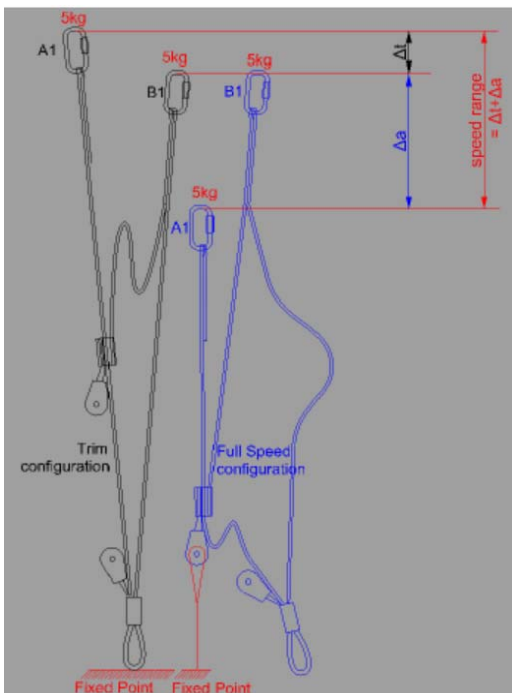
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	143	127	142

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

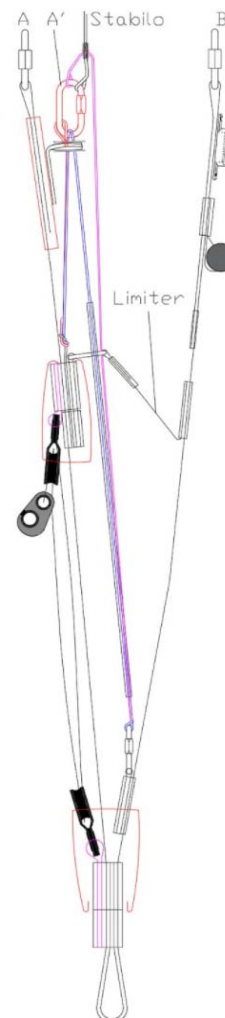
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



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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		Edlerid	Edlerid	Edlerid	
10	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid	Edlerid	
11	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid	Edlerid	
12	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid	Edlerid	
13	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid	Edlerid	
14	Edlerid	Edlerid		Edlerid	Edlerid		Edlerid	Edlerid		
15	Edlerid	8000-025		Edlerid	Edlerid		Edlerid	Edlerid	Edlerid	
16	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid	Edlerid	
17	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid	Edlerid	
18					Edlerid	8000-025	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		Edlerid	
6	Edlerid			Edlerid		Edlerid			
7	Edlerid			Edlerid		Edlerid			
8	Edlerid	8001-070		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	Edlerid	
6	Edlerid			8001-050		Edlerid	8001-050	Edlerid	
7	Edlerid			8001-025		Edlerid	8001-025	Edlerid	

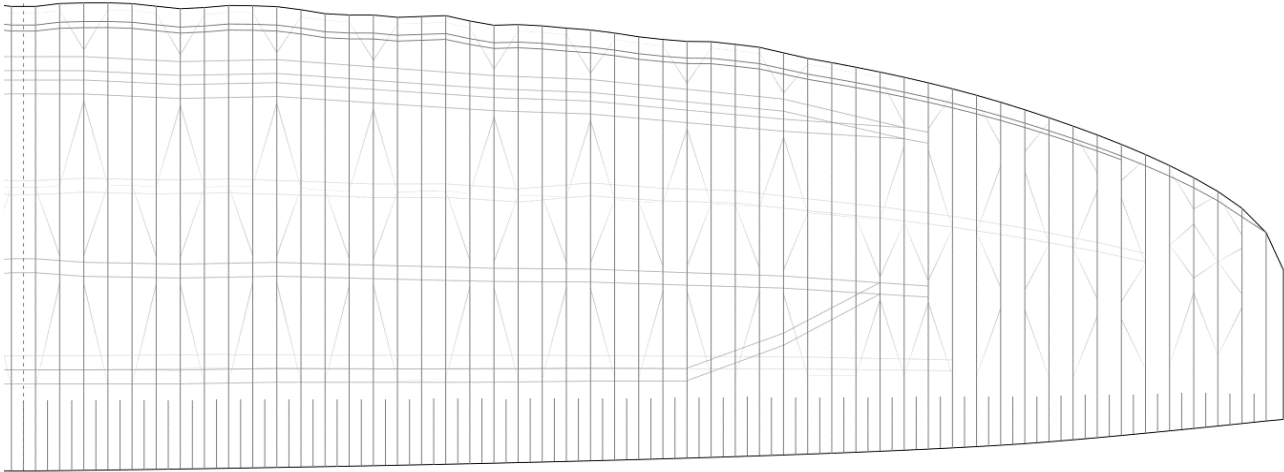
Main									
	A		B		BR H/Main				
1	Edlerid	8001-340		Edlerid	8001-190	Edlerid	8001-090		
2	Edlerid			Edlerid	8001-190	Edlerid	8001-090		
3	Edlerid			8001-190	Edlerid	8001-090	Edlerid		
STB H/Main	Edlerid	8001-070				GIN	TGL220		
STB L/Main	Liros	PSSL-065							

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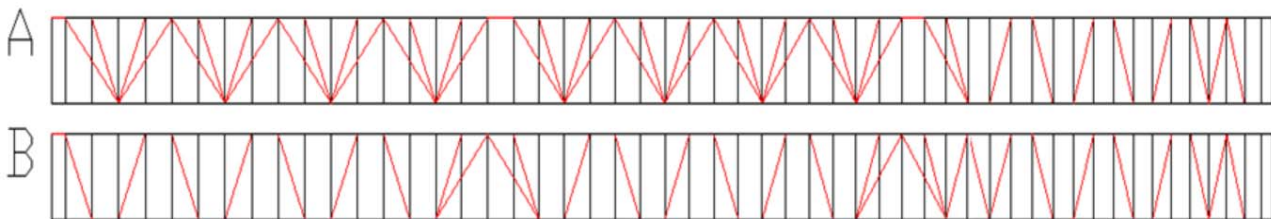
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

