

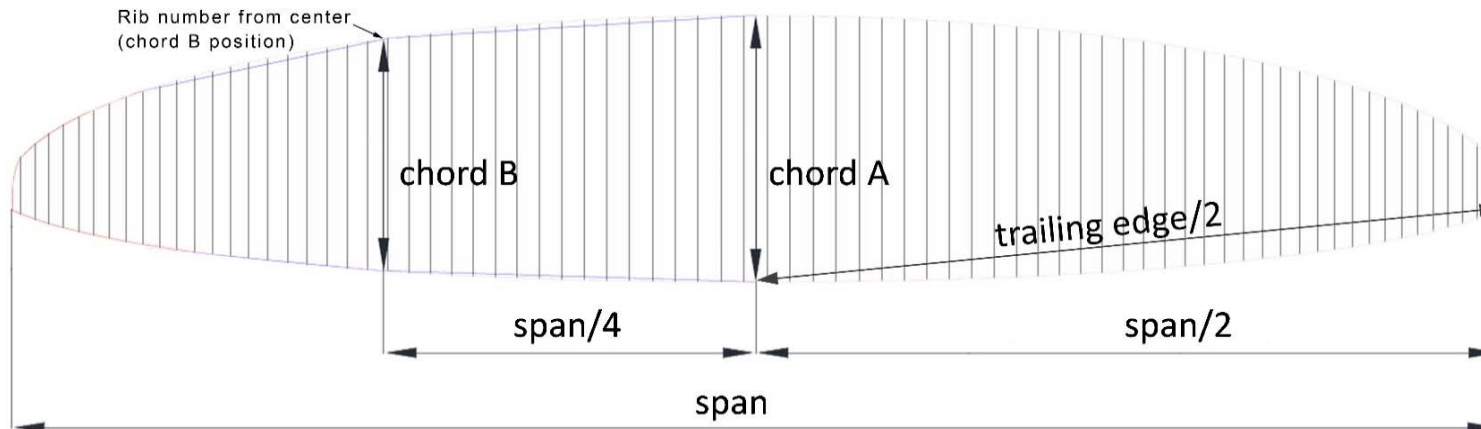
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	XL	Test laboratory Cert. #	n/a
Model	Boomerang 12 (2023)	Serial #	BL05-Q108P0136P	Certification date	24.01.2023

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		14181	5	+/-2%	7,54	105	1,13
1/2 Trailing Edge		7233	5	+/-1%			
Chord A		2295	1	+/-1%			
Chord B	23	2091	1	+/-1%			



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

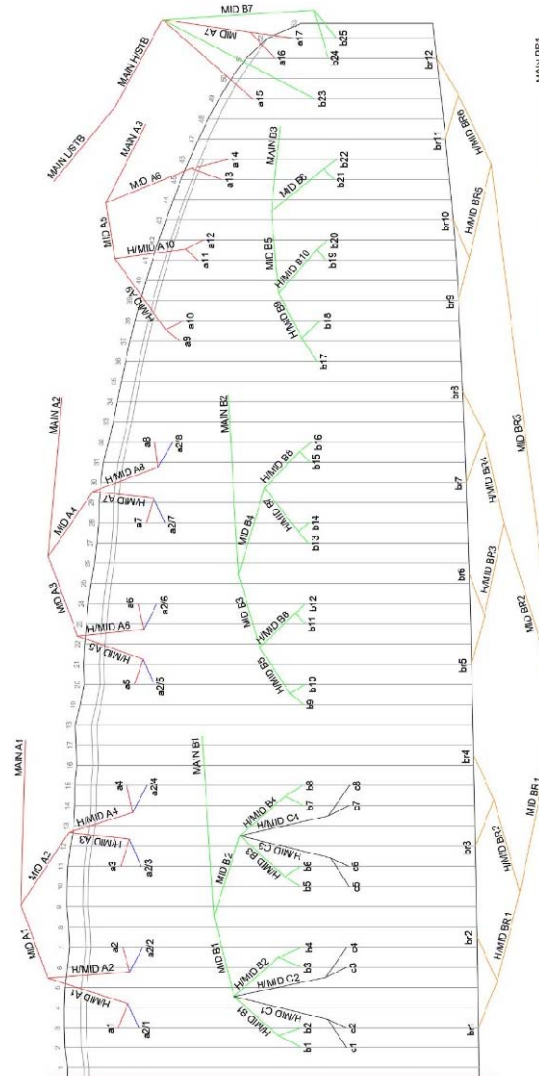
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2331	1	+/-1%
Top of inlet	2	2244	1	+/-1%
Bottom of inlet	2	2209	1	+/-1%
Tab Aa*	3	2052	1	+/-10mm
Tab Ab*	3	1931	1	+/-10mm
Tab B*	2	1013	1	+/-10mm
Tab C*	2	757	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1845	1	+/-1%
Top of inlet	32	1771	1	+/-1%
Bottom of inlet	32	1753	1	+/-1%
Tab Aa*	32	1609	1	+/-10mm
Tab Ab*	32	1518	1	+/-10mm
Tab B*	32	805	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	724	1	+/-1%
Tab A*	52	618	1	+/-10mm
Tab B*	52	426	1 </td <td>+/-10mm</td>	+/-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							7915	7909	6
24							7913	7916	-3
23							7988	7979	9
22							8154	8159	-5
21							8162	8165	-3
20							8224	8229	-5
19							8241	8243	-2
18							8349	8341	8
17	7905	7901	4				8430	8437	-7
16	7915	7917	-2				8628	8624	4
15	8003	8002	1				8605	8602	3
14	8152	8158	-6				8591	8595	-4
13	8167	8165	2				8614	8616	-2
12	8236	8237	-1				8689	8678	11
11	8251	8254	-3				8689	8687	2
10	8372	8373	-1				8795	8796	-1
9	8420	8425	-5				8854	8855	-1
8	8644	8643	1	8628	8626	2	8936	8930	6
7	8641	8647	-6	8629	8624	5	8894	8898	-4
6	8729	8723	6	8710	8701	9	8865	8866	-1
5	8870	8874	-4	8846	8849	-3	8874	8879	-5
4	8973	8972	1	8944	8946	-2	8915	8913	2
3	8929	8927	2	8909	8902	7	8926	8922	4
2	8966	8969	-3	8948	8944	4	9026	9020	6
1	9090	9096	-6	9061	9068	-7	9089	9081	8
1	9089	9096	-7	9064	9068	-4	9088	9081	7
2	8960	8969	-9	8943	8944	-1	9025	9020	5
3	8921	8927	-6	8909	8902	7	8925	8922	3
4	8970	8972	-2	8947	8946	1	8914	8913	1
5	8879	8874	5	8845	8849	-4	8876	8879	-3
6	8720	8723	-3	8703	8701	2	8865	8866	-1
7	8649	8647	2	8624	8624	0	8889	8898	-9
8	8642	8643	-1	8624	8626	-2	8938	8930	8
9	8429	8425	4				8857	8855	2
10	8377	8373	4				8794	8796	-2
11	8256	8254	2				8679	8687	-8
12	8234	8237	-3				8675	8678	-3
13	8160	8165	-5				8611	8616	-5
14	8154	8158	-4				8599	8595	4
15	8009	8002	7				8595	8602	-7
16	7910	7917	-7				8625	8624	1
17	7900	7901	-1				8432	8437	-5
18							8348	8341	7
19							8245	8243	2
20							8224	8229	-5
21							8169	8165	4
22							8152	8159	-7
23							7986	7979	7
24							7924	7916	8
25							7916	7909	7

Number	C		
	Glider	Manual	Delta
4	8967	8966	1
3	8975	8975	0
2	9074	9068	6
1	9135	9129	6
1	9134	9129	5
2	9071	9068	3
3	8974	8975	-1
4	8967	8966	1

Number	C		
	Glider	Manual	Delta
8	8971	8976	-5
7	8938	8949	-11
6	8916	8917	-1
5	8934	8930	4
5	8932	8930	2
6	8909	8917	-8
7	8942	8949	-7
8	8971	8976	-5

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Riser length

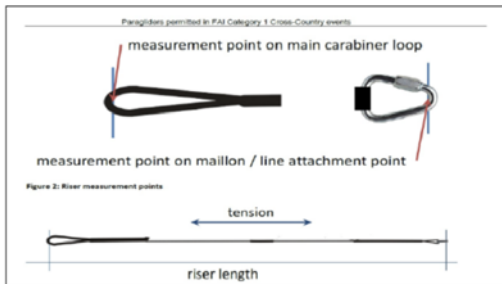
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	485	505	520	0	10
Glider	518	487	508	519	1	

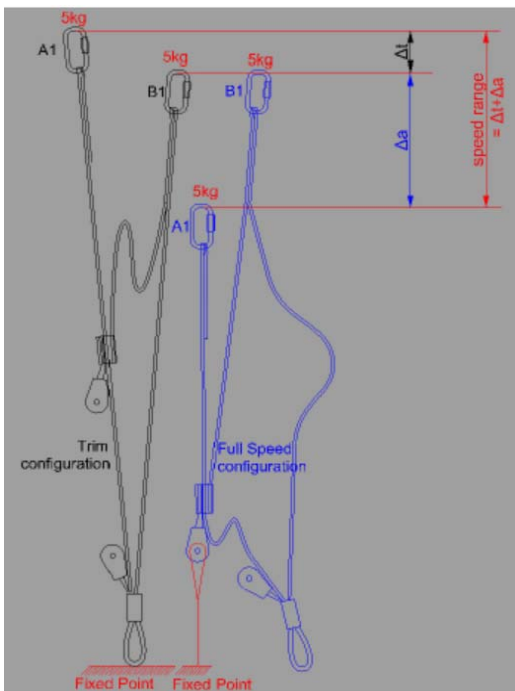
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	140	127	141

High speed setting	Δa (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	103	104

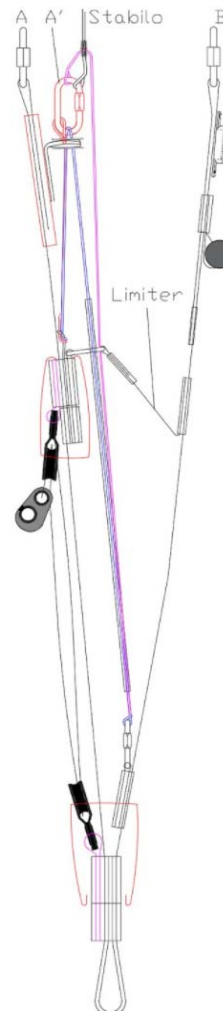
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



Measurement Report Template

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Table of line materials

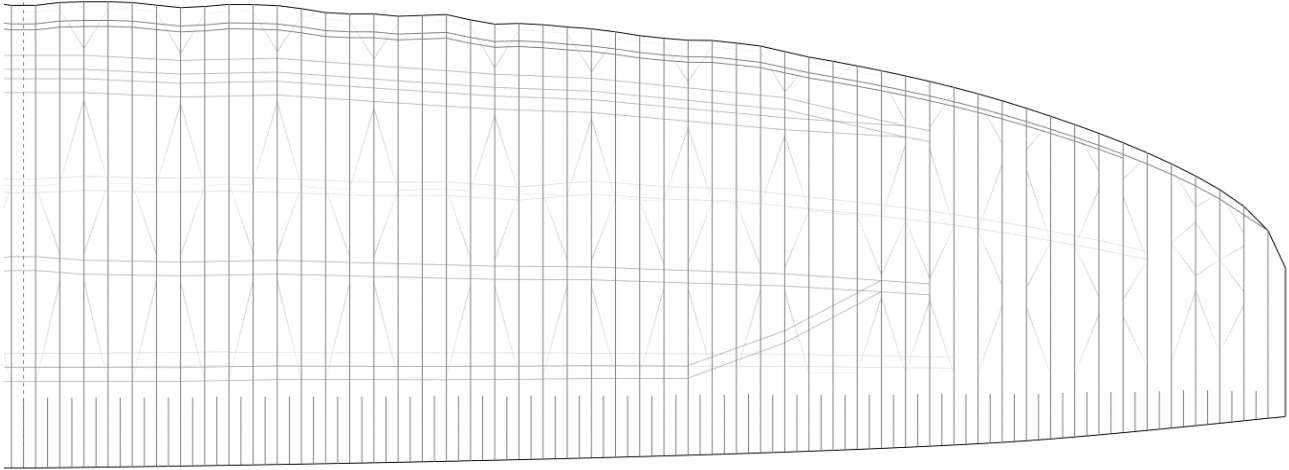
Table of line materials												
Upper												
		A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025		
2	Edlerid	8001-070	Edlerid	8001-070	Edlerid		Edlerid		Edlerid			
3	Edlerid	8001-070	Edlerid	8001-070	Edlerid		Edlerid		Edlerid			
4	Edlerid	8001-090	Edlerid	8001-090	Edlerid		Edlerid		Edlerid			
5	Edlerid	8001-090	Edlerid	8001-090	Edlerid		Edlerid		Edlerid			
6	Edlerid	8001-070	Edlerid	8001-070	Edlerid		Edlerid		Edlerid			
7	Edlerid	8001-070	Edlerid	8001-070	Edlerid		Edlerid		Edlerid			
8	Edlerid	8001-070	Edlerid	8001-070	Edlerid		Edlerid		Edlerid			
9	Edlerid	8001-050			Edlerid		8001-050		Edlerid	8001-025		
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				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		8001-050	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			Edlerid				
Middle												
		A		B				BR L/Middle				
1	Edlerid	8001-230			Edlerid	8001-090		Edlerid		8001-050		
2	Edlerid				Edlerid			Edlerid				
3	Edlerid	8001-190			Edlerid		8001-070	Edlerid			Edlerid	
4	Edlerid				Edlerid			Edlerid				
5	Edlerid	8001-090			Edlerid			Edlerid		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	8001-470			Edlerid	8001-190		Edlerid	8001-090			
2	Edlerid	8001-340			Edlerid	8001-190		Edlerid	8001-190	BR L/Main		
3	Edlerid	8001-190			Edlerid	8001-090		Edlerid	8001-090	GIN	TGL220	
STB H/Main	Edlerid	8001-070										
STB L/Main	Liros	PPSL-065										

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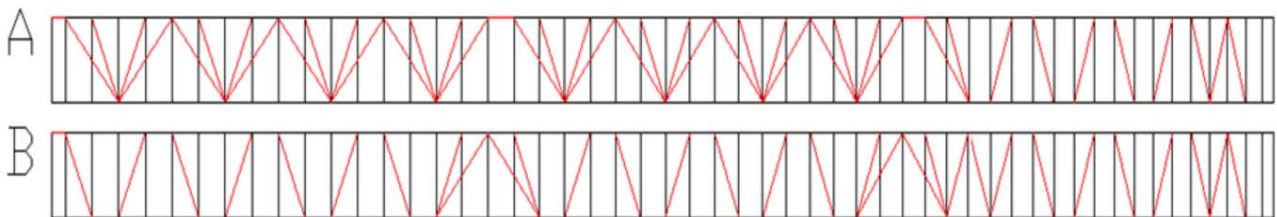
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

