

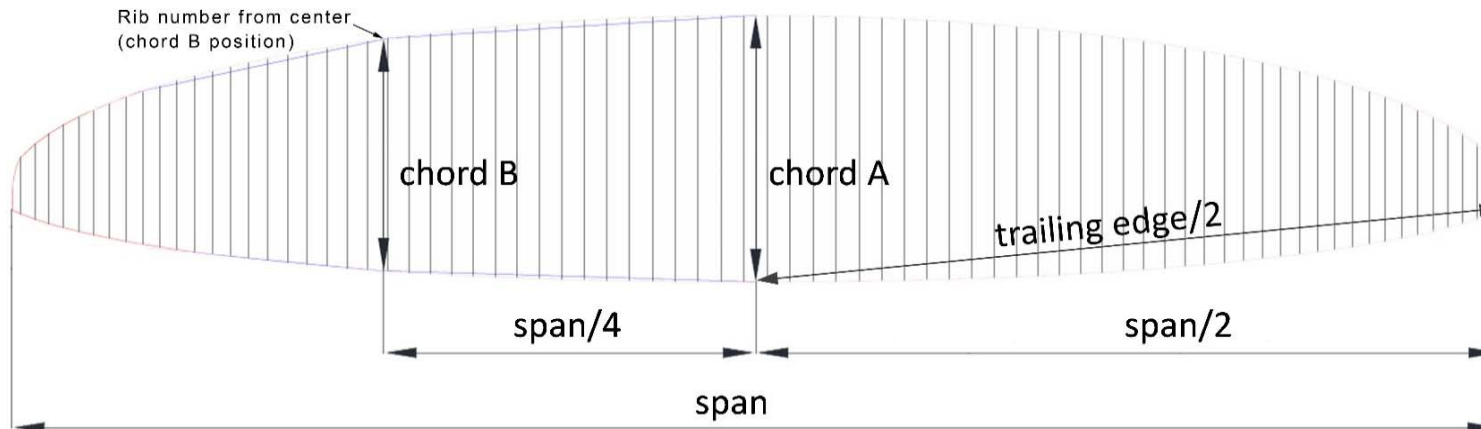
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	M	Test laboratory Cert. #	n/a
Model	Boomerang 12	Serial #	BK06-Q8200281P	Certification date	06.07.2021

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		13396	5	+/-2%	7,42	105	1,04
1/2 Trailing Edge		6808	5	+/-1%			
Chord A		2171	1	+/-1%			
Chord B	23	2019	1	+/-1%			



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

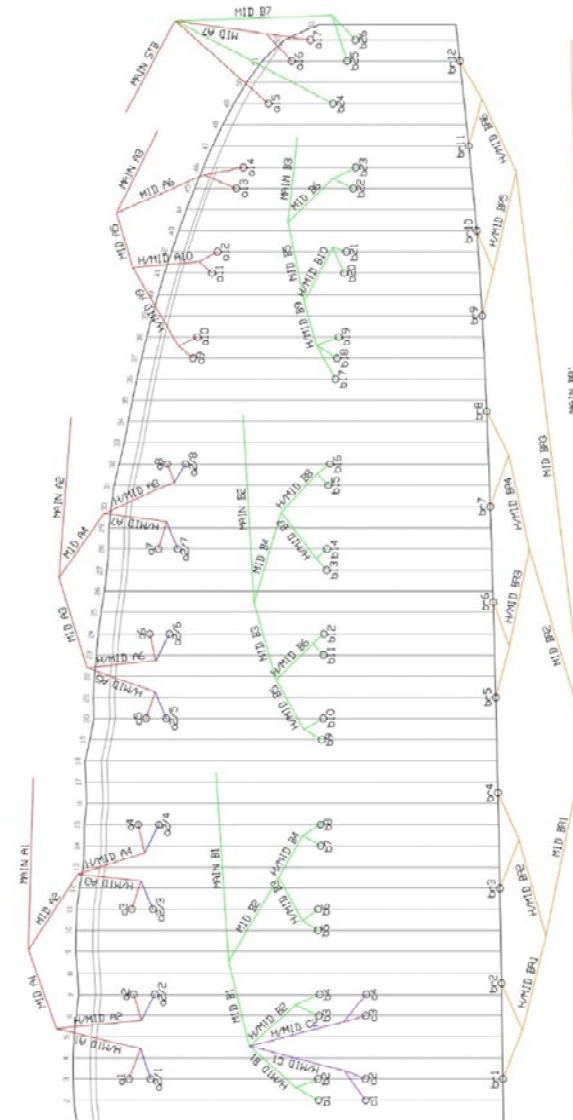
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2206	1	+/-1%
Top of inlet	2	2117	1	+/-1%
Bottom of inlet	2	2093	1	+/-1%
Tab Aa*	3	1942	1	+/-10mm
Tab Ab*	3	1831	1	+/-10mm
Tab B*	2	954	1	+/-10mm
Tab C*	2	616	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1754	1	+/-1%
Top of inlet	32	1677	1	+/-1%
Bottom of inlet	32	1653	1	+/-1%
Tab Aa*	32	1511	1	+/-10mm
Tab Ab*	32	1424	1	+/-10mm
Tab B*	32	756	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	684	1	+/-1%
Tab A*	52	582	1	+/-10mm
Tab B*	52	406	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		
	Manual	Glider	Delta	Manual	Glider	Delta	Manual	Glider	Delta
26							7420	7425	5
25							7422	7421	-1
24							7480	7479	-1
23							7676	7680	4
22							7679	7683	4
21							7741	7737	-4
20							7753	7753	0
19							7847	7847	0
18							7879	7874	-5
17	7413	7417	4				7938	7934	-4
16	7425	7426	1				8095	8096	1
15	7504	7504	0				8075	8072	-3
14	7642	7641	-1				8068	8067	-1
13	7646	7649	3				8087	8087	0
12	7717	7712	-5				8144	8141	-3
11	7732	7726	-6				8154	8150	-4
10	7843	7840	-3				8259	8253	-6
9	7892	7893	1				8314	8312	-2
8	8112	8109	-3	8105	8100	-5	8387	8384	-3
7	8113	8112	-1	8101	8098	-3	8357	8360	3
6	8184	8182	-2	8173	8170	-3	8326	8324	-2
5	8329	8330	1	8314	8315	1	8338	8338	0
4	8423	8421	-2	8408	8405	-3	8371	8373	2
3	8380	8371	-9	8365	8355	-10	8381	8388	7
2	8422	8416	-6	8407	8402	-5	8476	8473	-3
1	8543	8543	0	8526	8522	-4	8533	8533	0
1	8543	8542	-1	8526	8522	-4	8533	8533	0
2	8422	8421	-1	8407	8401	-6	8476	8471	-5
3	8380	8373	-7	8365	8355	-10	8381	8387	6
4	8423	8421	-2	8408	8407	-1	8371	8371	0
5	8329	8325	-4	8314	8312	-2	8338	8338	0
6	8184	8184	0	8173	8174	1	8326	8328	2
7	8113	8108	-5	8101	8098	-3	8357	8358	1
8	8112	8110	-2	8105	8102	-3	8387	8391	4
9	7892	7896	4				8314	8311	-3
10	7843	7845	2				8259	8261	2
11	7732	7733	1				8154	8152	-2
12	7717	7716	-1				8144	8147	3
13	7646	7649	3				8087	8088	1
14	7642	7646	4				8068	8065	-3
15	7504	7503	-1				8075	8077	2
16	7425	7420	-5				8095	8095	0
17	7413	7415	2				7938	7936	-2
18							7879	7881	2
19							7847	7847	0
20							7753	7749	-4
21							7741	7736	-5
22							7679	7678	-1
23							7676	7676	0
24							7480	7477	-3
25							7422	7420	-2
26							7420	7416	-4

Number	C		
	Manual	Glider	Delta
4	8447	8441	-6
3	8467	8468	1
2	8549	8551	2
1	8609	8612	3
1	8609	8610	1
2	8549	8554	5
3	8467	8467	0
4	8447	8448	1

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Riser length

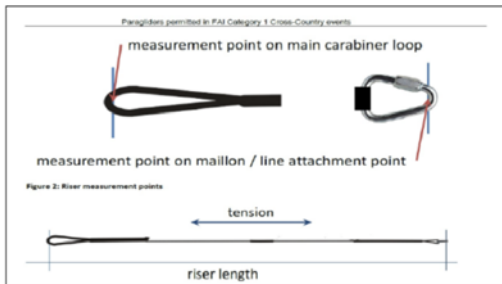
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A1	A3	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	487		520	0	10
Glider	522	490		520	-2	

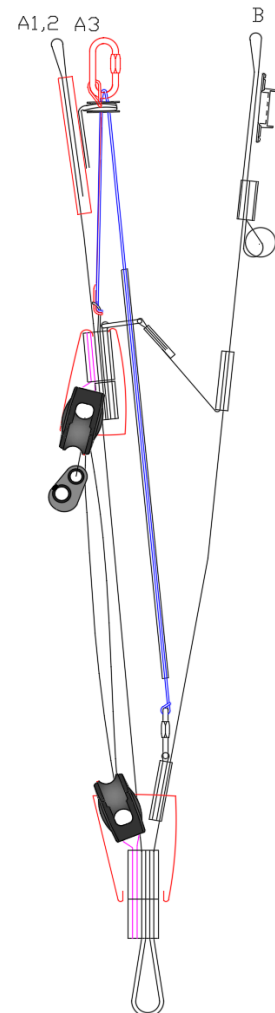
Full speed setting	Δa (=B-A1)	B-A3	Total speed range ($\Delta t + \Delta a$)
Manual	140	125	140
Glider	141	128	139

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

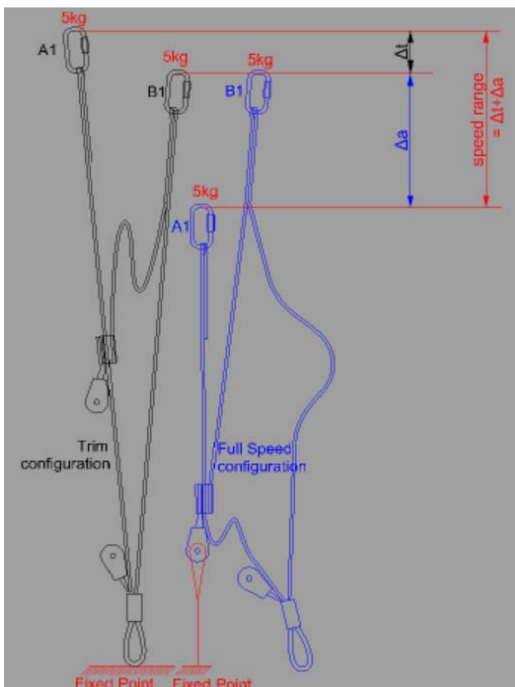
Riser measurement points



Riser drawing (manufacturer)



Riser measurement lengths





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Table of line materials

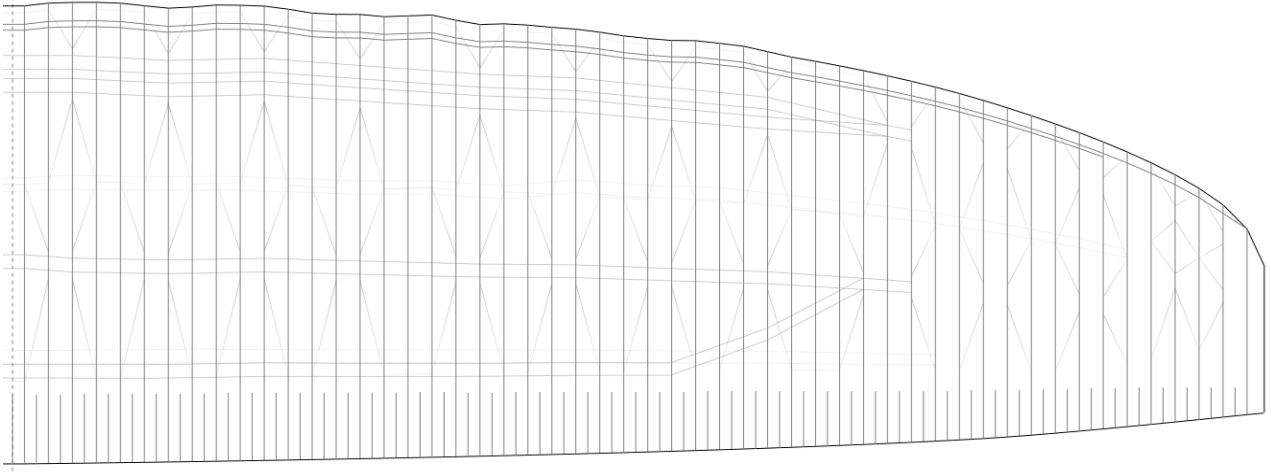
Table of line materials										
Upper										
	A1		A2		B		C		BR	
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid	
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
4	Edlerid	8001-070	Edlerid		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		
11	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
12	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
13	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
14	Edlerid	Edlerid		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			
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			
6	Edlerid			8001-050	Edlerid		8001-050			
7	Edlerid				Edlerid		Edlerid			
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 Main	Edlerid	8001-070					GIN	TGL220		

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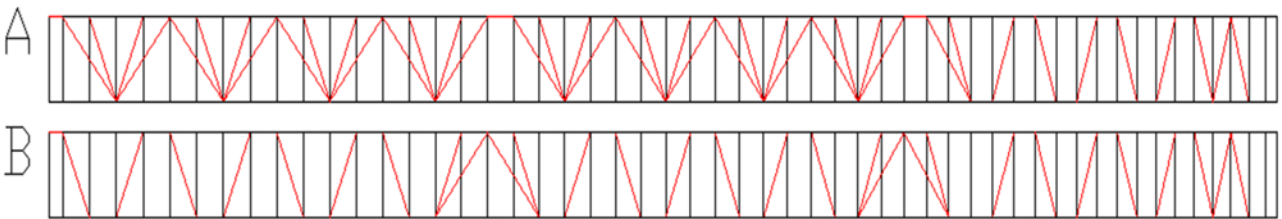
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

