

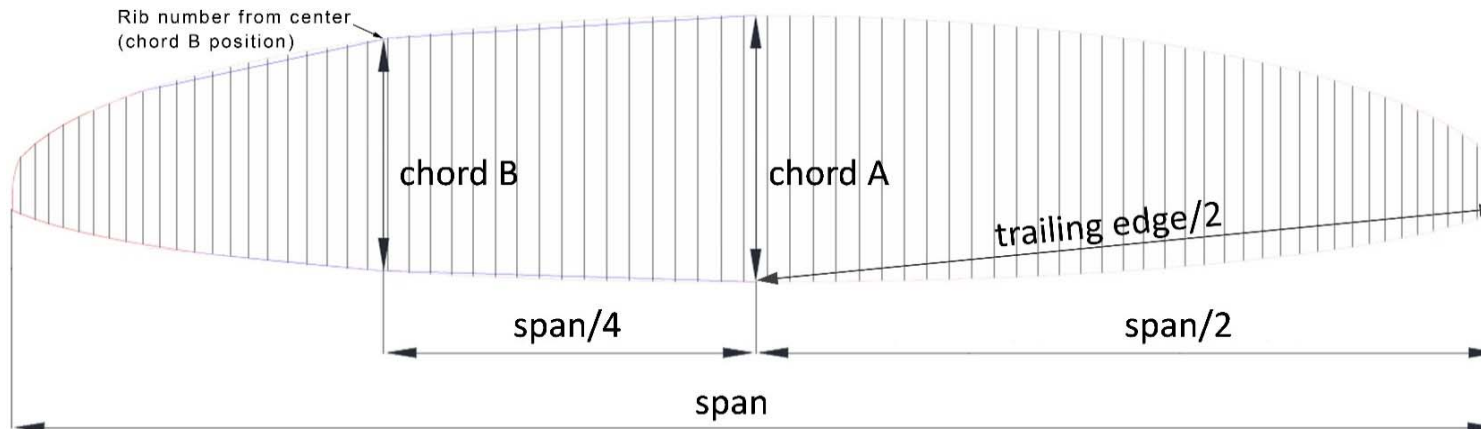
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	L	Test laboratory Cert. #	n/a
Model	Boomerang 12	Serial #	BK06-Q8200286P	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		13920	5	+/-2%	7,48	105	1,08
1/2 Trailing Edge		7005	5	+/-1%			
Chord A		2270	1	+/-1%			
Chord B	23	2069	1	+/-1%			



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

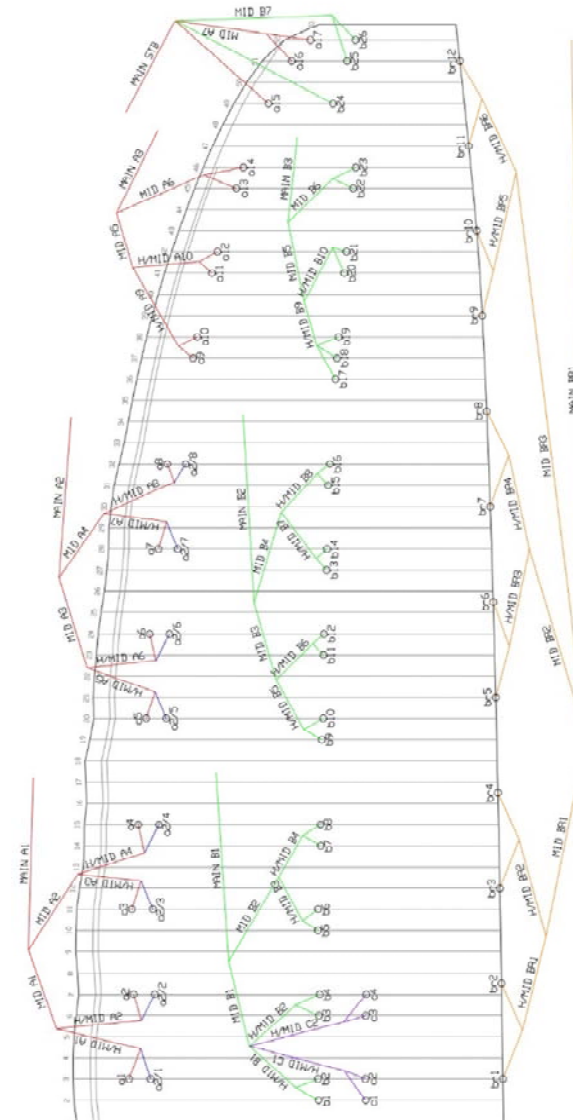
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2305	1	+/-1%
Top of inlet	2	2218	1	+/-1%
Bottom of inlet	2	2187	1	+/-1%
Tab Aa*	3	2021	1	+/-10mm
Tab Ab*	3	1903	1	+/-10mm
Tab B*	2	991	1	+/-10mm
Tab C*	2	741	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1826	1	+/-1%
Top of inlet	32	1741	1	+/-1%
Bottom of inlet	32	1718	1	+/-1%
Tab Aa*	32	1576	1	+/-10mm
Tab Ab*	32	1485	1	+/-10mm
Tab B*	32	785	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	710	1	+/-1%
Tab A*	52	606	1	+/-10mm
Tab B*	52	424	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							7725	7725	0
25							7728	7727	-1
24							7787	7794	7
23							7991	7993	2
22							7994	7995	1
21							8061	8055	-6
20							8073	8070	-3
19							8171	8172	1
18							8205	8200	-5
17	7719	7722	3				8265	8261	-4
16	7731	7727	-4				8427	8423	-4
15	7813	7818	5				8406	8407	1
14	7955	7960	5				8399	8404	5
13	7960	7960	0				8418	8422	4
12	8034	8033	-1				8478	8480	2
11	8049	8047	-2				8489	8485	-4
10	8165	8165	0				8597	8596	-1
9	8216	8220	4				8654	8661	7
8	8445	8444	-1	8438	8433	-5	8730	8725	-5
7	8447	8443	-4	8433	8425	-8	8699	8703	4
6	8520	8519	-1	8509	8505	-4	8666	8668	2
5	8670	8668	-2	8655	8656	1	8679	8683	4
4	8764	8760	-4	8748	8748	0	8711	8717	6
3	8719	8717	-2	8703	8704	1	8721	8728	7
2	8760	8763	3	8744	8741	-3	8820	8821	1
1	8886	8886	0	8868	8866	-2	8880	8877	-3
1	8886	8888	2	8868	8866	-2	8880	8880	0
2	8760	8761	1	8744	8741	-3	8820	8821	1
3	8719	8722	3	8703	8701	-2	8721	8728	7
4	8764	8760	-4	8748	8750	2	8711	8717	6
5	8670	8669	-1	8655	8654	-1	8679	8678	-1
6	8520	8520	0	8509	8506	-3	8666	8662	-4
7	8447	8442	-5	8433	8428	-5	8699	8700	1
8	8445	8447	2	8438	8433	-5	8730	8729	-1
9	8216	8219	3				8654	8656	2
10	8165	8167	2				8597	8598	1
11	8049	8051	2				8489	8490	1
12	8034	8038	4				8478	8483	5
13	7960	7963	3				8418	8423	5
14	7955	7960	5				8399	8407	8
15	7813	7812	-1				8406	8409	3
16	7731	7733	2				8427	8432	5
17	7719	7722	3				8265	8265	0
18							8205	8200	-5
19							8171	8165	-6
20							8073	8071	-2
21							8061	8052	-9
22							7994	7996	2
23							7991	7988	-3
24							7787	7789	2
25							7728	7728	0
26							7725	7723	-2

Number	C		
	Manual	Glider	Delta
4	8790	8789	-1
3	8807	8806	-1
2	8896	8893	-3
1	8956	8956	0
1	8956	8954	-2
2	8896	8899	3
3	8807	8810	3
4	8790	8790	0

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Riser length

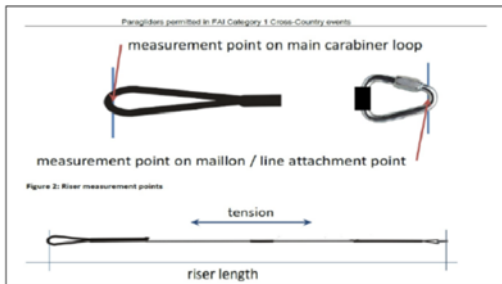
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A1	A3	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	487		520	0	10
Glider	524	490		522	-2	

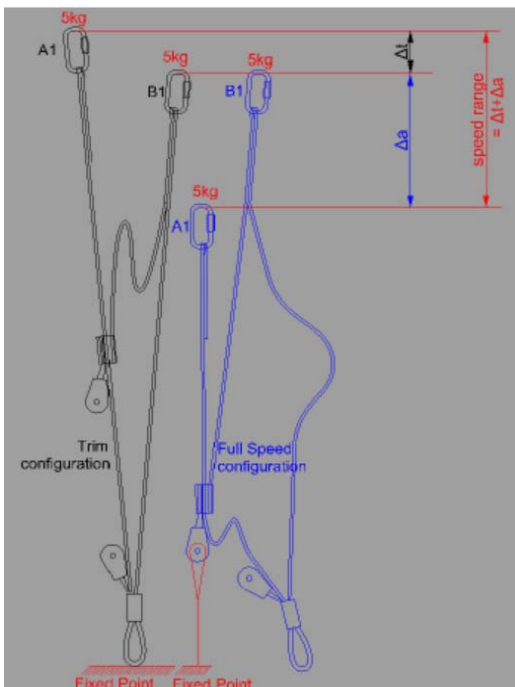
Full speed setting	Δa (=B-A1)	B-A3	Total speed range ($\Delta t + \Delta a$)
Manual	140	125	140
Glider	144	129	142

High speed setting	Δa (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	106	104

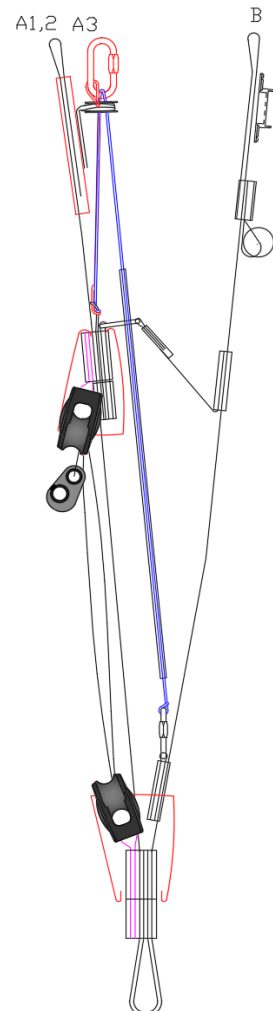
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)





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Table of line materials

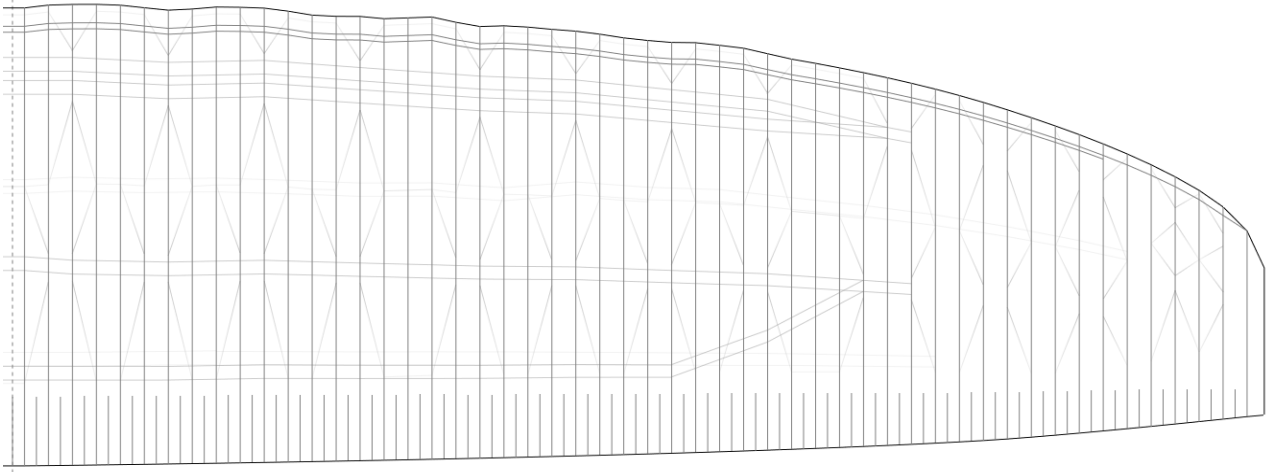
Table of line materials										
Upper										
	A1		A2		B		C		BR	
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid	
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
4	Edlerid	8001-070	Edlerid		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			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			8001-090	Edlerid		8001-070	Edlerid		
5	Edlerid				Edlerid		8001-050			
6	Edlerid			8001-050	Edlerid		8001-050	Edlerid		
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		Edlerid	8001-090		
3	Edlerid			8001-190	Edlerid		8001-090	Edlerid		
STB Main	Edlerid	8001-070					GIN	TGL220		

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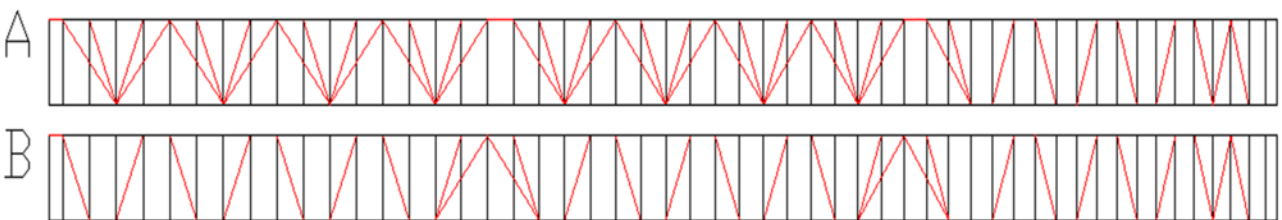
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

