

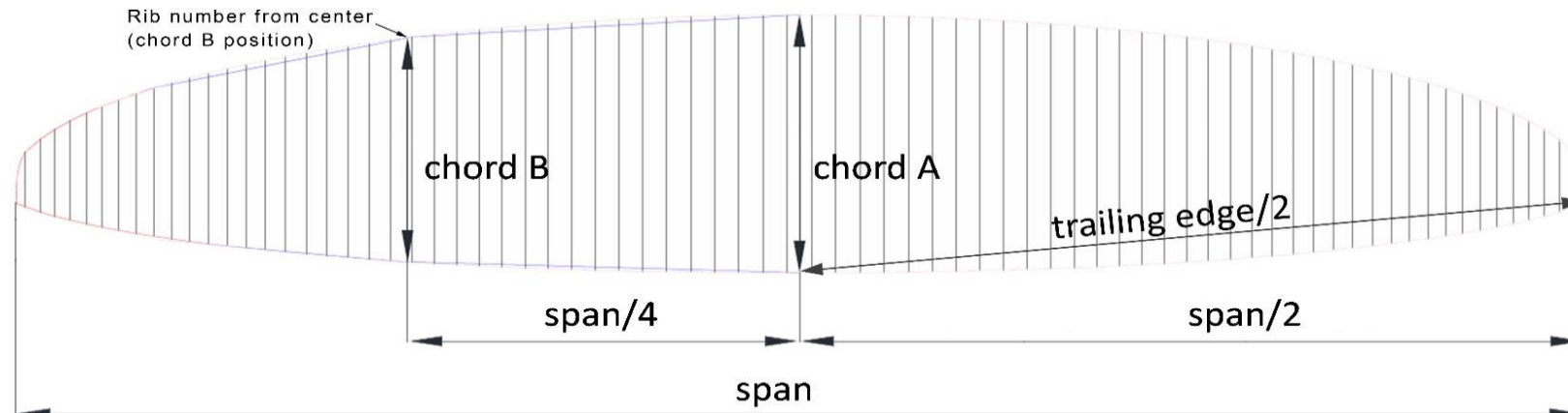
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	L	Test laboratory Cert. #	n/a
Model	Boomerang 13.1	Serial #	BP05-Q1080345P	Certification date	20.06.2025

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		13926	5	+/-2%	7.54	101	1.12
1/2 Trailing Edge		6995	5	+/-1%			
Chord A		2244	1	+/-1%			
Chord B	21	2058	1	+/-1%			



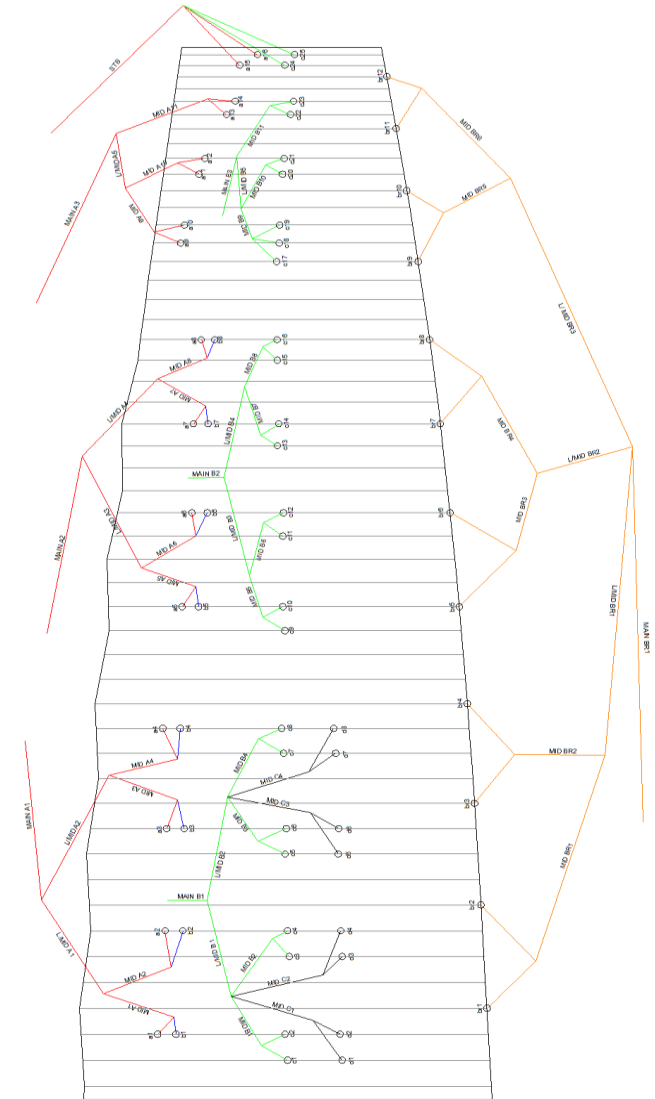
Chord length, inlet position, tabs position measured from trailing edge.

(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	2274	1	+/-1%
Top of inlet	2	2186	1	+/-1%
Bottom of inlet	2	2154	1	+/-1%
Tab Aa*	3	2004	1	+/-10mm
Tab Ab*	3	1866	1	+/-10mm
Tab B*	2	1001	1	+/-10mm
Tab C*	2	660	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1689	1	+/-1%
Top of inlet	32	1624	1	+/-1%
Bottom of inlet	32	1600	1	+/-1%
Tab Aa*	32	1470	1	+/-10mm
Tab Ab*	32	1368	1	+/-10mm
Tab B*	32	743	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	50	383	1	+/-1%
Tab A*	50	326	1	+/-10mm
Tab B*	50	199	1	+/-10mm



*Bridle (tab) position measuremt:
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			
27												
26												
25							7668	7671	-3			
24							7660	7671	-11			
23							7838	7843	-5			
22							7840	7843	-3			
21							7881	7886	-5			
20							7886	7896	-10			
19							7974	7981	-7			
18							7987	7996	-9			
17							8036	8046	-10			
16	7652	7650	2				8283	8289	-6			
15	7681	7680	1				8268	8274	-6			
14	7836	7837	-1				8268	8279	-11			
13	7829	7832	-3				8301	8304	-3			
12	7896	7897	-1				8365	8374	-9			
11	7900	7907	-7				8379	8384	-5			
10	8006	8012	-6				8495	8499	-4			
9	8057	8062	-5				8553	8559	-6			
8	8302	8313	-11	8283	8288	-5	8645	8654	-9			
7	8320	8333	-13	8297	8303	-6	8618	8624	-6			
6	8409	8418	-9	8384	8393	-9	8596	8599	-3			
5	8562	8573	-11	8539	8543	-4	8613	8614	-1			
4	8684	8693	-9	8660	8663	-3	8650	8654	-4			
3	8646	8658	-12	8618	8628	-10	8660	8659	1			
2	8695	8703	-8	8673	8673	0	8752	8759	-7			
1	8830	8833	-3	8802	8798	4	8829	8824	5			
1	8830	8833	-3	8799	8798	1	8827	8824	3			
2	8708	8703	5	8666	8673	-7	8759	8759	0			
3	8650	8658	-8	8619	8628	-9	8666	8659	7			
4	8691	8693	-2	8653	8663	-10	8659	8654	5			
5	8565	8573	-8	8533	8543	-10	8617	8614	3			
6	8412	8418	-6	8385	8393	-8	8593	8599	-6			
7	8325	8333	-8	8294	8303	-9	8613	8624	-11			
8	8310	8313	-3	8278	8288	-10	8648	8654	-6			
9	8051	8062	-11				8548	8559	-11			
10	8000	8012	-12				8487	8499	-12			
11	7897	7907	-10				8377	8384	-7			
12	7888	7897	-9				8365	8374	-9			
13	7821	7832	-11				8293	8304	-11			
14	7828	7837	-9				8267	8279	-12			
15	7672	7680	-8				8265	8274	-9			
16	7645	7650	-5				8280	8289	-9			
17							8040	8046	-6			
18							7995	7996	-1			
19							7985	7981	4			
20							7891	7896	-5			
21							7889	7886	3			
22							7844	7843	1			
23							7844	7843	1			
24							7665	7671	-6			
25							7664	7671	-7			
26												
27												

Number	C		
	Glider	Manual	Delta
4	8740	8732	8
3	8745	8737	8
2	8844	8832	12
1	8908	8897	11
1	8909	8897	12
2	8844	8832	12
3	8743	8737	6
4	8738	8732	6

Number	C		
	Glider	Manual	Delta
8	8716	8717	-1
7	8693	8692	1
6	8673	8672	1
5	8689	8687	2
5	8687	8687	0
6	8669	8672	-3
7	8692	8692	0
8	8716	8717	-1

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Riser length

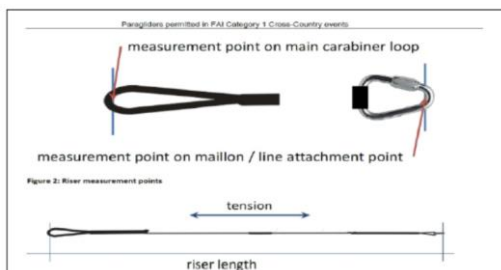
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	490	490	520	0	10
Glider	519	489	489	521	2	

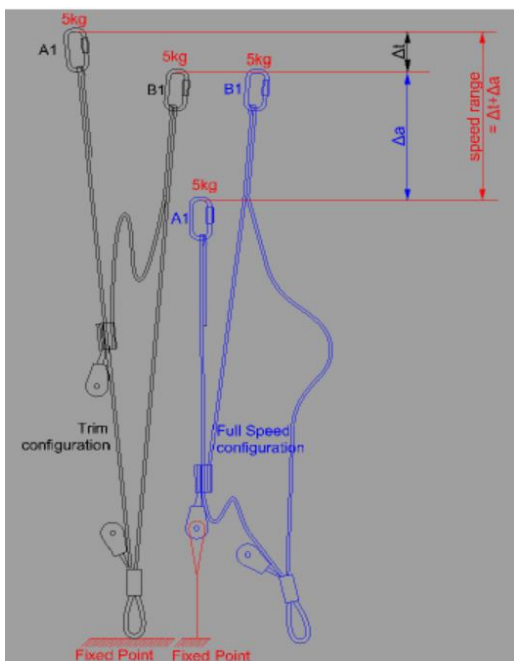
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	100	142
Glider	140	101	142

High speed setting	Δa (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	102	104

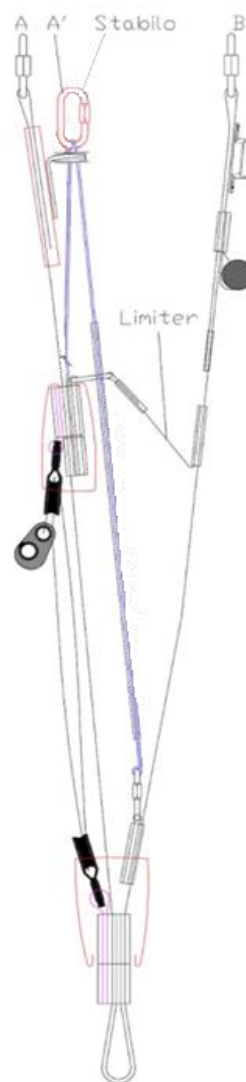
Riser measurement points



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	
9	Edlerid	8001-050			Edlerid	8001-050			Edlerid	
10	Edlerid				Edlerid				Edlerid	
11	Edlerid				Edlerid				Edlerid	
12	Edlerid				Edlerid				Edlerid	
13	Edlerid				Edlerid				Edlerid	
14	Edlerid				Edlerid				Edlerid	
15	Edlerid				Edlerid				Edlerid	
16	Edlerid				Edlerid				Edlerid	
17					Edlerid	8000-025				
18					Edlerid					
19					Edlerid					
20					Edlerid					
21					Edlerid					
22					Edlerid					
23					Edlerid					
24					Edlerid					
25					Edlerid					

H/middle											
	A				B				BR H/Middle		
1	Edlerid	8001-130			Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid				Edlerid		Edlerid				
3	Edlerid	8001-090			Edlerid		Edlerid		Edlerid		
4	Edlerid				Edlerid		Edlerid		Edlerid		
5	Edlerid				Edlerid				Edlerid		
6	Edlerid				Edlerid				Edlerid		
7	Edlerid				Edlerid				Edlerid		
8	Edlerid	8001-070			Edlerid		Edlerid				
9	Edlerid				Edlerid		Edlerid				
10	Edlerid				Edlerid		Edlerid				
11	Edlerid				Edlerid						

Middle										
	A				B				BR L/Middle	
1	Edlerid	8001-190			Edlerid	8001-130			Edlerid	8001-050
2	Edlerid				Edlerid				Edlerid	
3	Edlerid				Edlerid				Edlerid	
4	Edlerid				Edlerid					
5	Edlerid	8001-130			Edlerid	8001-090				

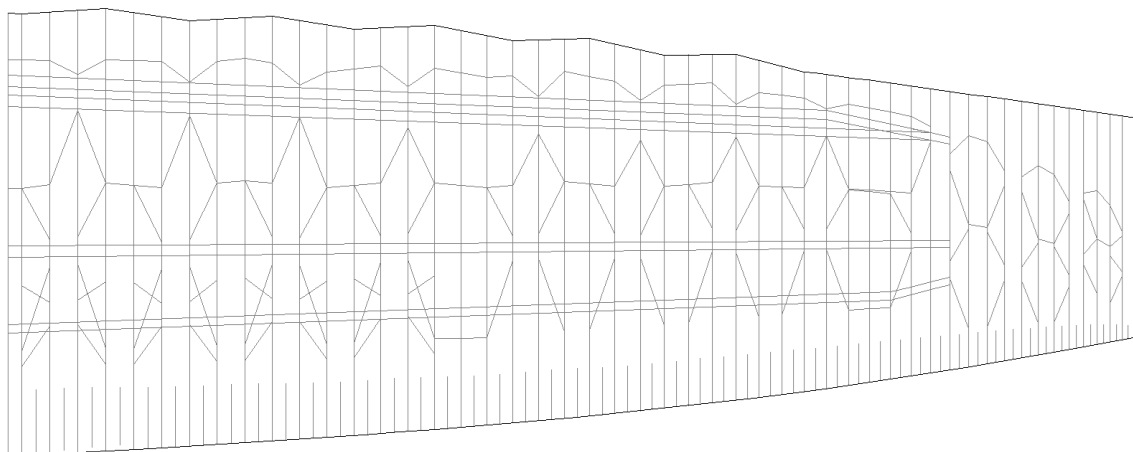
Main										
	A				B				BR H/Main	
1	Edlerid	8001-340			Edlerid	8001-190			Edlerid	8001-090
2	Edlerid				Edlerid	8001-190			BR L/Main	
3	Edlerid	8001-190			Edlerid	8001-090			GIN	TGL220
STB H/Main	Edelrid	8001-050								

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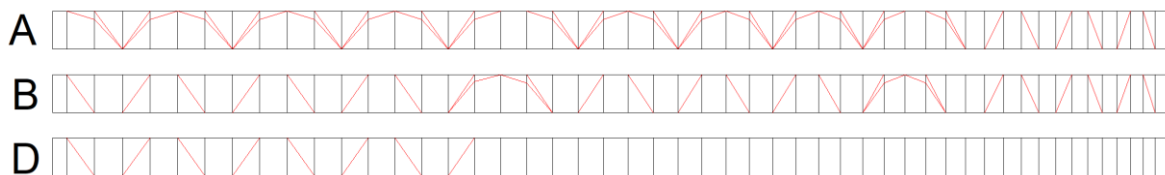
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (bottom view)



Diagonals (Front view)



Vent (Inlet) shape

