

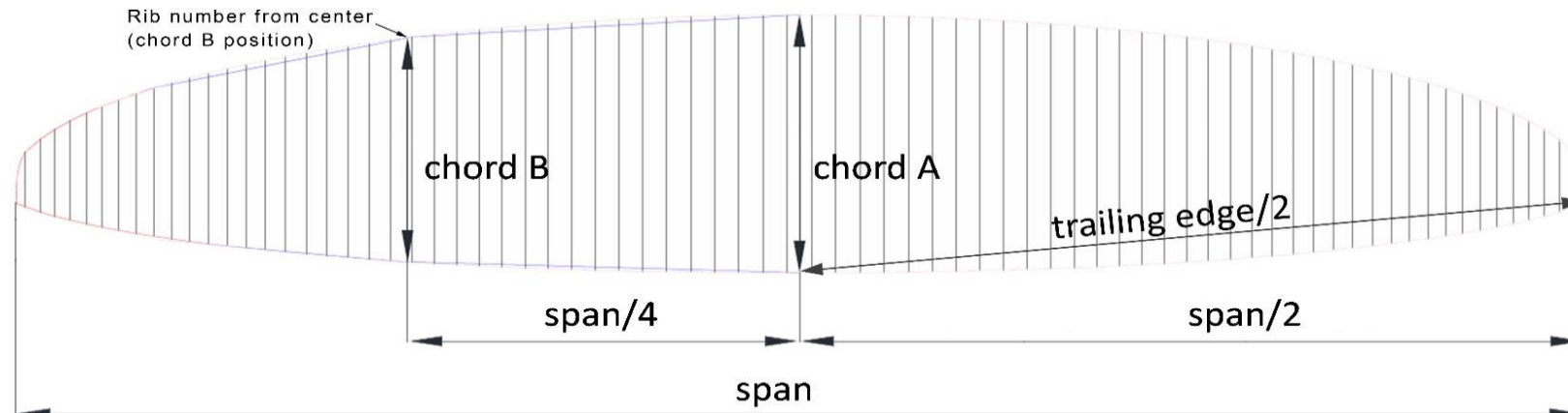
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	XL	Test laboratory Cert. #	n/a
Model	Boomerang 13.1	Serial #	BP05-Q1080346P	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		14194	5	+/-2%	7.54	101	1.15
1/2 Trailing Edge		7130	5	+/-1%			
Chord A		2287	1	+/-1%			
Chord B	21	2097	1	+/-1%			



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

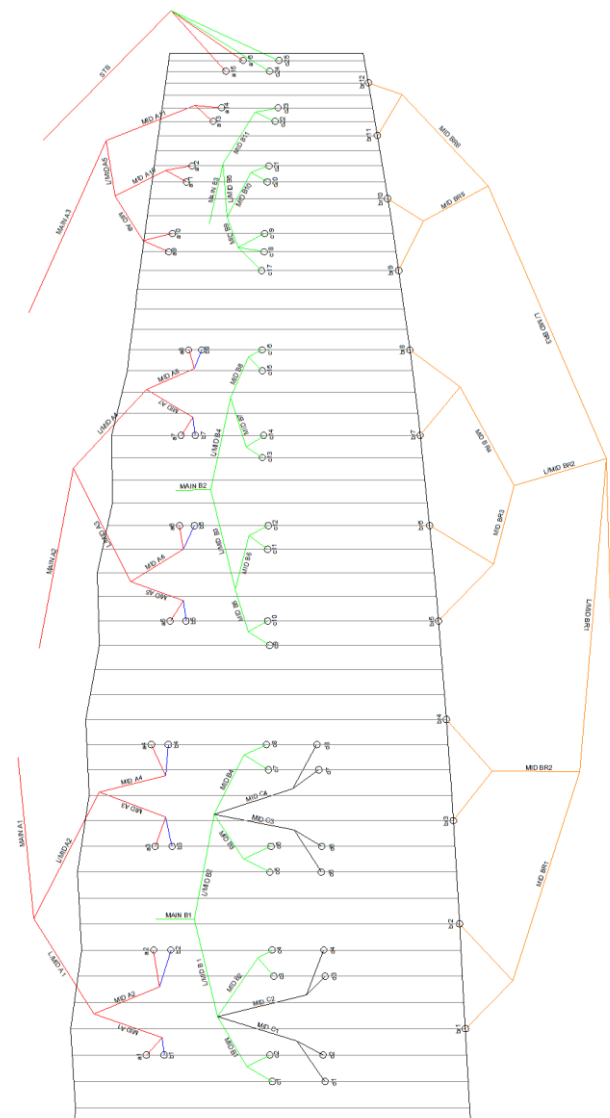
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2318	1	+/-1%
Top of inlet	2	2228	1	+/-1%
Bottom of inlet	2	2195	1	+/-1%
Tab Aa*	3	2042	1	+/-10mm
Tab Ab*	3	1902	1	+/-10mm
Tab B*	2	1020	1	+/-10mm
Tab C*	2	672	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1722	1	+/-1%
Top of inlet	32	1655	1	+/-1%
Bottom of inlet	32	1630	1	+/-1%
Tab Aa*	32	1498	1	+/-10mm
Tab Ab*	32	1395	1	+/-10mm
Tab B*	32	758	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	50	391	1	+/-1%
Tab A*	50	332	1	+/-10mm
Tab B*	50	203	1	+/-10mm

*Bridle (tab) position measuremt:
end of trailing edge to center bridle (tab)





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ABSOLUTE LINE LENGTH

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							7815	7821	-6			
24							7811	7821	-10			
23							7989	7993	-4			
22							7990	7993	-3			
21							8032	8041	-9			
20							8037	8046	-9			
19							8128	8136	-8			
18							8155	8156	-1			
17							8206	8201	5			
16	7795	7800	-5				8445	8449	-4			
15	7825	7830	-5				8429	8434	-5			
14	7983	7987	-4				8429	8439	-10			
13	7976	7987	-11				8463	8464	-1			
12	8044	8047	-3				8529	8539	-10			
11	8054	8062	-8				8543	8544	-1			
10	8156	8167	-11				8661	8659	2			
9	8208	8217	-9				8720	8724	-4			
8	8461	8473	-12	8442	8453	-11	8807	8819	-12			
7	8487	8493	-6	8457	8468	-11	8777	8789	-12			
6	8580	8583	-3	8545	8553	-8	8757	8764	-7			
5	8734	8743	-9	8703	8708	-5	8779	8784	-5			
4	8851	8863	-12	8827	8828	-1	8816	8819	-3			
3	8823	8828	-5	8783	8793	-10	8827	8824	3			
2	8862	8873	-11	8839	8838	1	8920	8929	-9			
1	9000	9003	-3	8971	8968	3	8999	8994	5			
1	9000	9003	-3	8968	8968	0	8996	8994	2			
2	8875	8873	2	8832	8838	-6	8928	8929	-1			
3	8816	8828	-12	8784	8793	-9	8832	8824	8			
4	8858	8863	-5	8819	8828	-9	8826	8819	7			
5	8739	8743	-4	8697	8708	-11	8782	8784	-2			
6	8573	8583	-10	8541	8553	-12	8758	8764	-6			
7	8485	8493	-8	8459	8468	-9	8779	8789	-10			
8	8469	8473	-4	8447	8453	-6	8814	8819	-5			
9	8205	8217	-12				8712	8724	-12			
10	8158	8167	-9				8650	8659	-9			
11	8055	8062	-7				8539	8544	-5			
12	8039	8047	-8				8531	8539	-8			
13	7978	7987	-9				8461	8464	-3			
14	7979	7987	-8				8433	8439	-6			
15	7831	7830	1				8428	8434	-6			
16	7788	7800	-12				8439	8449	-10			
17							8194	8201	-7			
18							8148	8156	-8			
19							8138	8136	2			
20							8035	8046	-11			
21							8040	8041	-1			
22							7995	7993	2			
23							7995	7993	2			
24							7811	7821	-10			
25							7814	7821	-7			
26												
27												

Number	C		
	Glider	Manual	Delta
4	8909	8902	7
3	8914	8907	7
2	9014	9002	12
1	9078	9067	11
1	9077	9067	10
2	9014	9002	12
3	8911	8907	4
4	8907	8902	5

Number	C		
	Glider	Manual	Delta
8	8884	8887	-3
7	8861	8862	-1
6	8840	8837	3
5	8856	8857	-1
5	8855	8857	-2
6	8837	8837	0
7	8860	8862	-2
8	8884	8887	-3

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Riser length

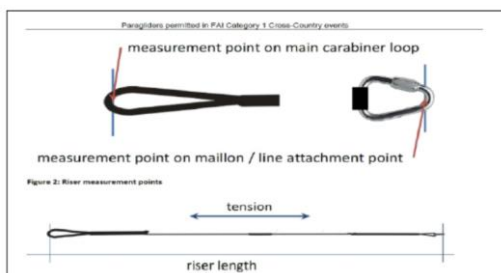
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

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	

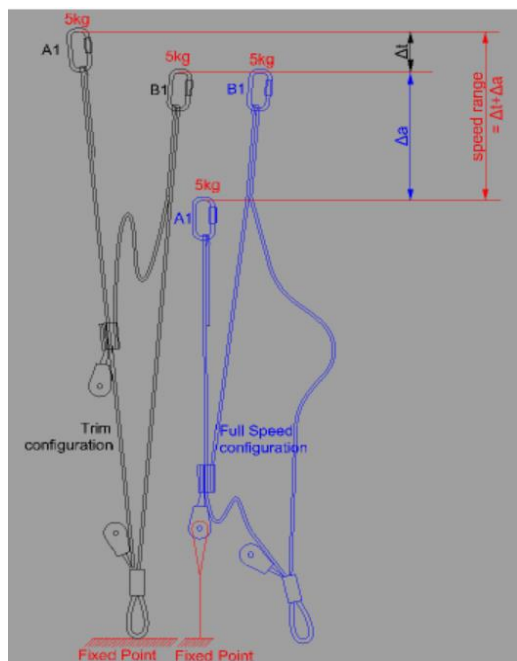
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	100	142
Glider	140	101	142

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

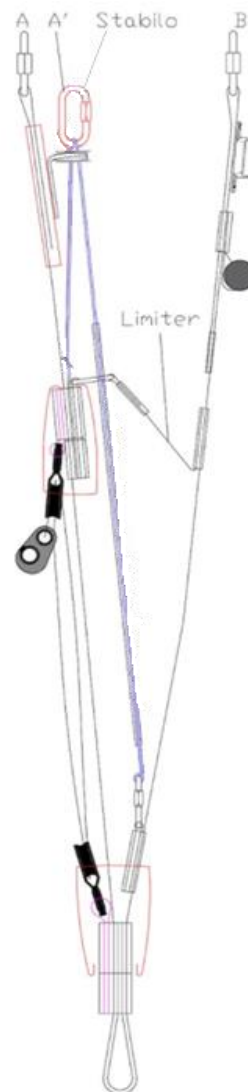
Riser measurment points



Riser measurment lengths



Riser drawing (manufacturer)



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Table of line materials

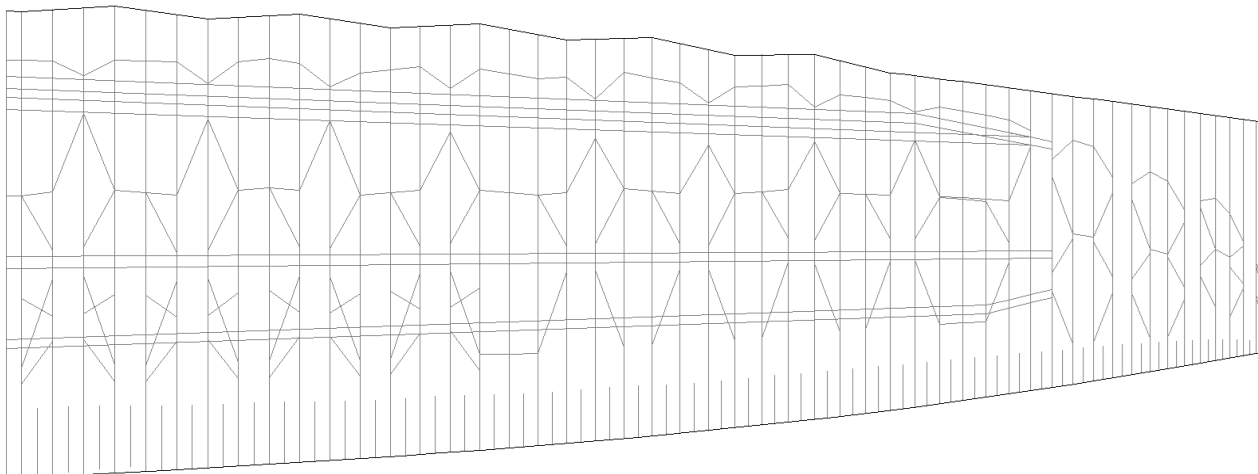
Table of line materials											
Upper											
	A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
4	Edlerid	8001-070	Edlerid		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	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						
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		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		Edlerid
3	Edlerid				Edlerid				Edlerid		Edlerid
4	Edlerid				Edlerid						
5	Edlerid	8001-130			Edlerid	8001-070					
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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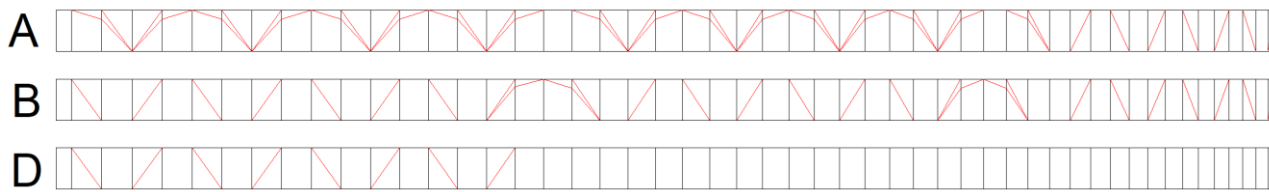
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (bottom view)



Diagonals (Front view)



Vent (Inlet) shape

