

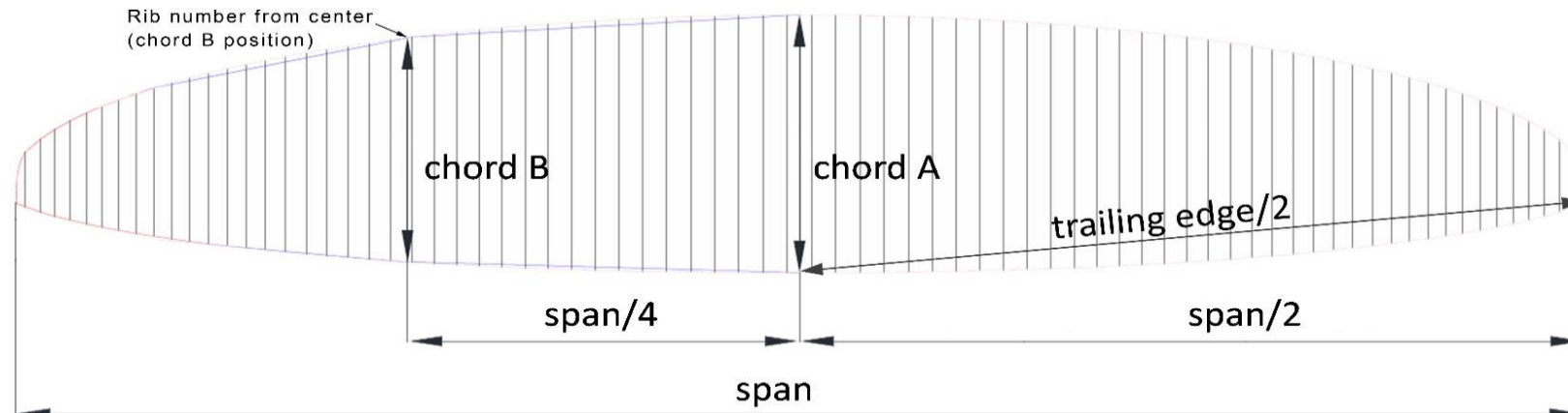
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	M	Test laboratory Cert. #	n/a
Model	Boomerang 13.1	Serial #	BP05-Q1080342P	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		13376	5	+/-2%	7.54	101	1.08
1/2 Trailing Edge		6719	5	+/-1%			
Chord A		2156	1	+/-1%			
Chord B	21	1977	1	+/-1%			



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

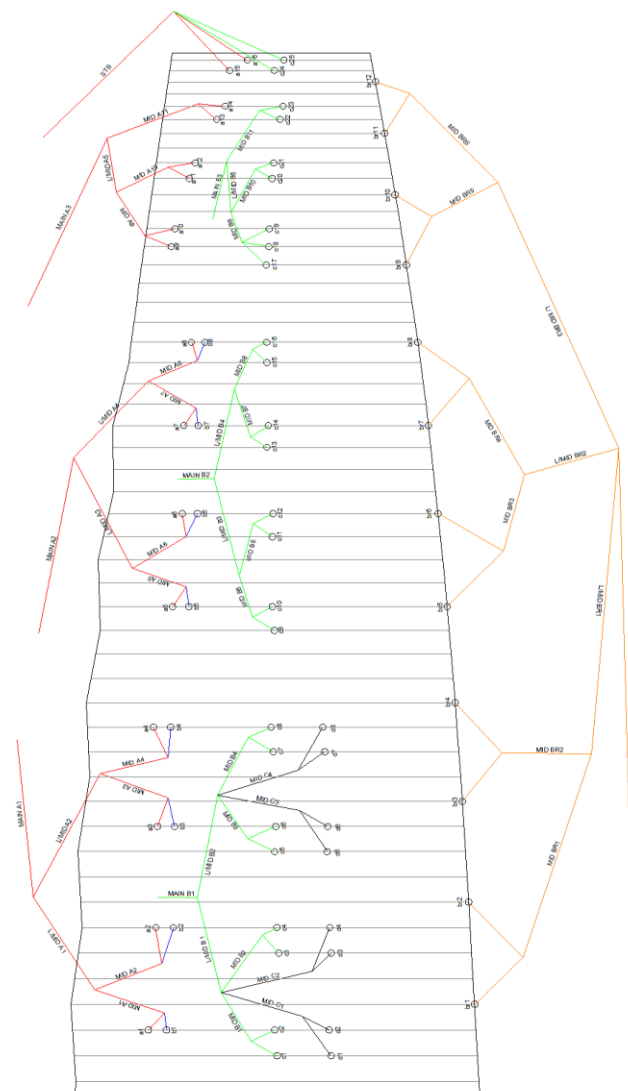
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2184	1	+/-1%
Top of inlet	2	2100	1	+/-1%
Bottom of inlet	2	2068	1	+/-1%
Tab Aa*	3	1925	1	+/-10mm
Tab Ab*	3	1792	1	+/-10mm
Tab B*	2	961	1	+/-10mm
Tab C*	2	633	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1622	1	+/-1%
Top of inlet	32	1560	1	+/-1%
Bottom of inlet	32	1536	1	+/-1%
Tab Aa*	32	1412	1	+/-10mm
Tab Ab*	32	1314	1	+/-10mm
Tab B*	32	714	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	50	368	1	+/-1%
Tab A*	50	313	1	+/-10mm
Tab B*	50	191	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												
24												
23												
22												
21												
20												
19												
18												
17												
16										7338	7345	-7
15										7363	7375	-12
14										7512	7522	-10
13										7514	7522	-8
12										7577	7582	-5
11										7585	7587	-2
10	7681	7692	-11									
9	7735	7742	-7									
8	7973	7983	-10	7955	7958	-3	8300	8309	-9			
7	7991	7998	-7	7969	7973	-4	8272	8279	-7			
6	8076	8083	-7	8052	8058	-6	8245	8254	-9			
5	8223	8233	-10	8201	8203	-2	8273	8274	-1			
4	8341	8348	-7	8318	8318	0	8308	8314	-6			
3	8304	8313	-9	8277	8283	-6	8318	8319	-1			
2	8352	8363	-11	8330	8328	2	8406	8414	-8			
1	8481	8483	-2	8454	8453	1	8480	8479	1			
1	8481	8483	-2	8451	8453	-2	8478	8479	-1			
2	8363	8363	0	8323	8328	-5	8413	8414	-1			
3	8308	8313	-5	8278	8283	-5	8323	8319	4			
4	8347	8348	-1	8310	8318	-8	8317	8314	3			
5	8226	8233	-7	8196	8203	-7	8276	8274	2			
6	8079	8083	-4	8049	8058	-9	8253	8254	-1			
7	7990	7998	-8	7966	7973	-7	8273	8279	-6			
8	7981	7983	-2	7951	7958	-7	8306	8309	-3			
9	7733	7742	-9				8210	8219	-9			
10	7684	7692	-8				8152	8159	-7			
11	7580	7587	-7				8038	8049	-11			
12	7576	7582	-6				8034	8039	-5			
13	7512	7522	-10				7965	7974	-9			
14	7519	7522	-3				7940	7949	-9			
15	7364	7375	-11				7938	7944	-6			
16	7335	7345	-10				7953	7959	-6			
17							7722	7721	1			
18							7679	7676	3			
19							7669	7661	8			
20							7572	7576	-4			
21							7577	7571	6			
22							7534	7528	6			
23							7534	7528	6			
24							7358	7366	-8			
25							7355	7366	-11			
26												
27												

Number	C		
	Glider	Manual	Delta
4	8397	8387	10
3	8401	8392	9
2	8496	8487	9
1	8558	8552	6
1	8559	8552	7
2	8496	8487	9
3	8399	8392	7
4	8395	8387	8

Number	C		
	Glider	Manual	Delta
8	8373	8372	1
7	8352	8352	0
6	8332	8327	5
5	8347	8347	0
5	8346	8347	-1
6	8329	8327	2
7	8350	8352	-2
8	8373	8372	1

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Riser length

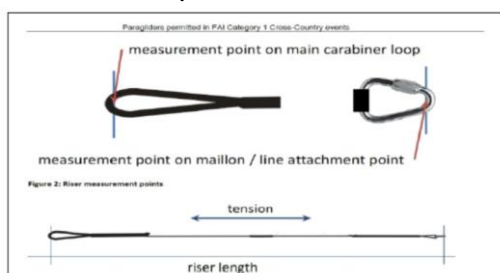
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

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	

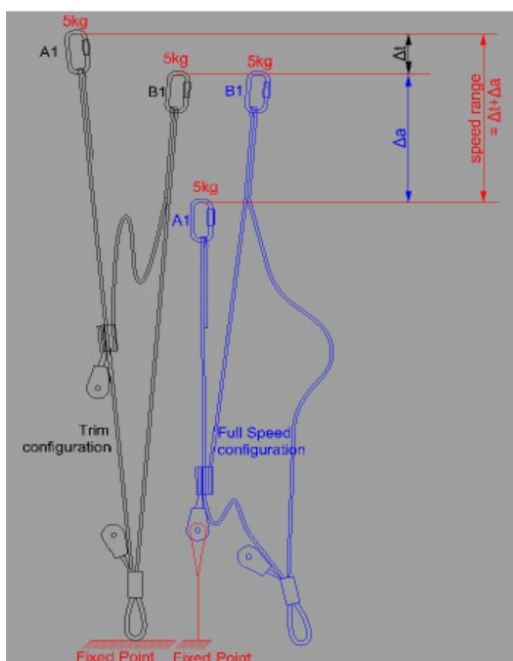
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	100	142
Glider	140	101	142

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

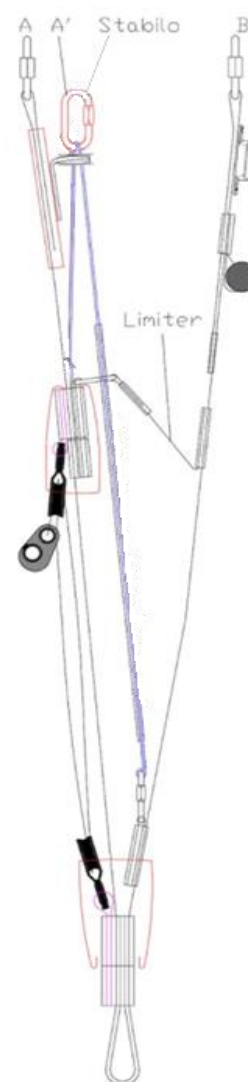
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



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Table of line materials

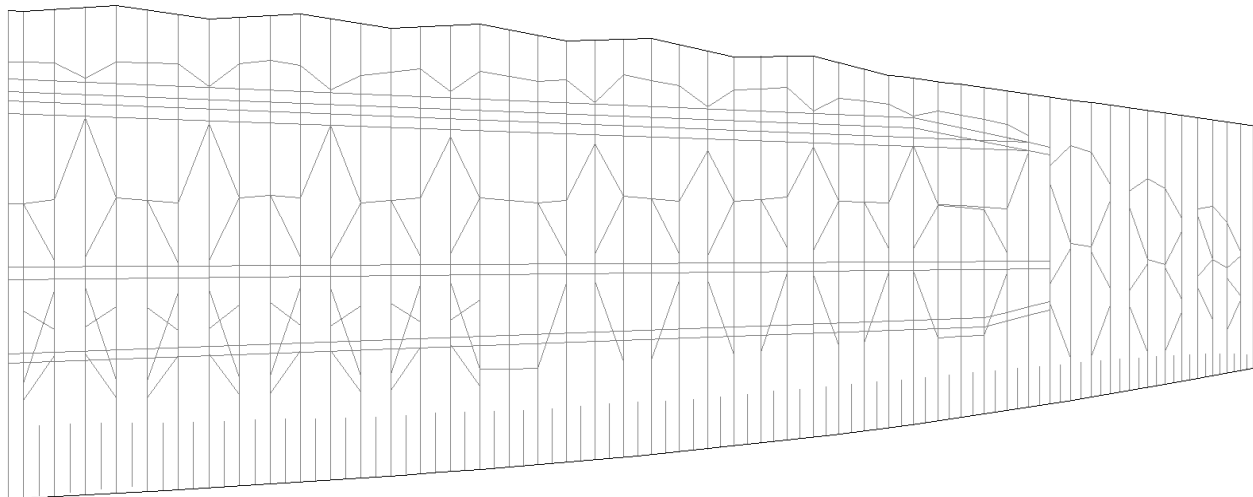
Table of line materials											
Upper											
	A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
4	Edlerid	8001-070	Edlerid		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		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	8000-025					
17					Edlerid						Edlerid
18					Edlerid						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	Edlerid	8001-025	
2	Edlerid				Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-090			Edlerid		Edlerid		Edlerid		
4	Edlerid				Edlerid		Edlerid		Edlerid		
5	Edlerid				Edlerid		Edlerid	Edlerid			
6	Edlerid				Edlerid		Edlerid	Edlerid			
7	Edlerid				Edlerid		Edlerid	Edlerid			
8	Edlerid	8001-070			Edlerid		Edlerid				
9	Edlerid				Edlerid		Edlerid				
10	Edlerid				Edlerid		Edlerid				
11	Edlerid				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				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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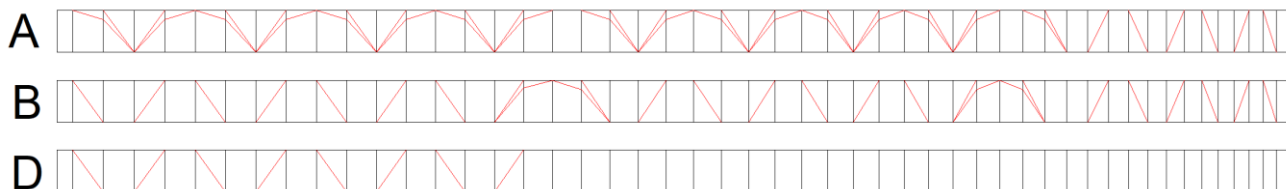
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (bottom view)



Diagonals (Front view)



Vent (Inlet) shape

