

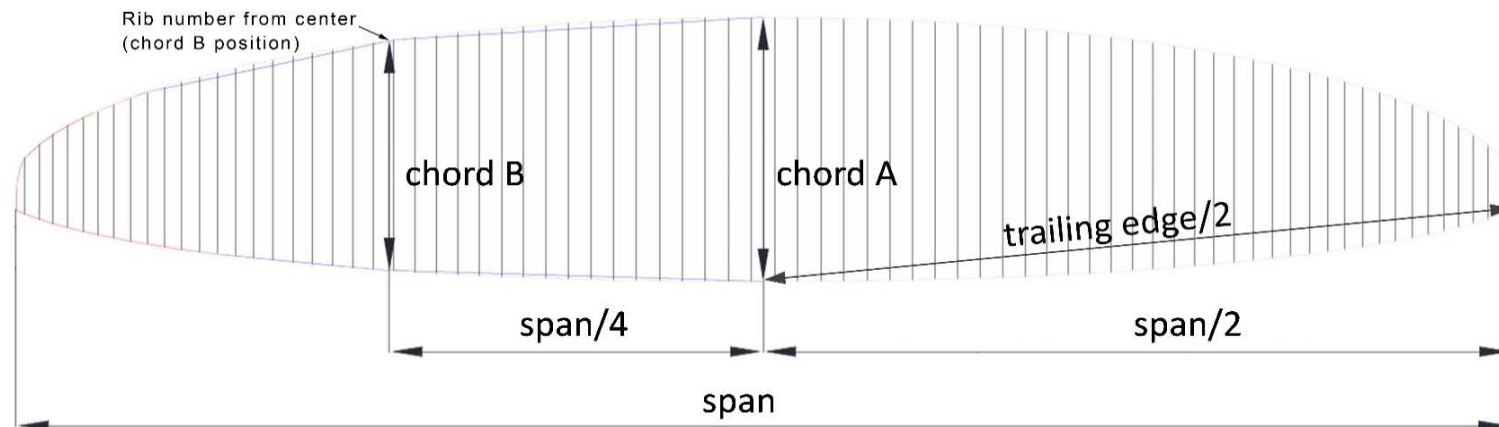
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	XS	Test laboratory Cert. #	DHV GS-CCC-029-24
Model	Boomerang 13	Serial #	BN02-Q1080311P	Certification date	20.03.2024

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		12386	5	+/-2%	7,52	111	1,00
1/2 Trailing Edge		6303	5	+/-1%			
Chord A		1984	1	+/-1%			
Chord B	25	1841	1	+/-1%			



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

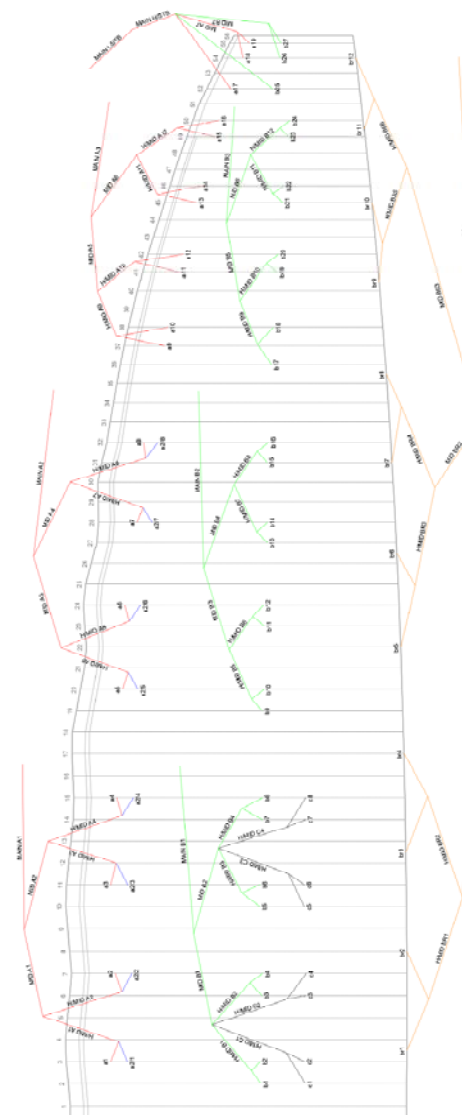
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	1998	1	+/-1%
Top of inlet	2	1924	1	+/-1%
Bottom of inlet	2	1894	1	+/-1%
Tab Aa*	3	1748	1	+/-10mm
Tab Ab*	3	1644	1	+/-10mm
Tab B*	2	869	1	+/-10mm
Tab C*	2	609	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1653	1	+/-1%
Top of inlet	32	1587	1	+/-1%
Bottom of inlet	32	1571	1	+/-1%
Tab Aa*	32	1443	1	+/-10mm
Tab Ab*	32	1362	1	+/-10mm
Tab B*	32	721	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	55	462	1	+/-1%
Tab A*	55	392	1	+/-10mm
Tab B*	55	277	1	+/-10mm

*Bridle (tab) position measurment:
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							6875	6878	-3
26							6845	6842	3
25							6875	6873	2
24							7049	7043	6
23							7036	7032	4
22							7052	7049	3
21							7069	7069	0
20							7137	7137	0
19	6857	6859	-2				7158	7151	7
18	6823	6829	-6				7245	7241	4
17	6903	6908	-5				7327	7329	-2
16	7032	7035	-3				7459	7454	5
15	7012	7013	-1				7438	7437	1
14	7039	7031	8				7445	7440	5
13	7058	7053	5				7453	7458	-5
12	7125	7129	-4				7518	7511	7
11	7149	7145	4				7526	7523	3
10	7253	7250	3				7623	7621	2
9	7291	7296	-5				7667	7668	-1
8	7458	7452	6	7439	7436	3	7742	7741	1
7	7452	7457	-5	7444	7440	4	7718	7717	1
6	7520	7529	-9	7512	7509	3	7698	7694	4
5	7652	7658	-6	7642	7639	3	7718	7710	8
4	7741	7746	-5	7735	7728	7	7749	7746	3
3	7726	7726	0	7705	7701	4	7758	7752	6
2	7768	7765	3	7748	7744	4	7846	7840	6
1	7874	7872	2	7856	7851	5	7897	7891	6
1	7876	7872	4	7858	7851	7	7899	7891	8
2	7769	7765	4	7748	7744	4	7846	7840	6
3	7724	7726	-2	7705	7701	4	7758	7752	6
4	7747	7746	1	7732	7728	4	7742	7746	-4
5	7657	7658	-1	7637	7639	-2	7715	7710	5
6	7523	7529	-6	7509	7509	0	7692	7694	-2
7	7459	7457	2	7442	7440	2	7721	7717	4
8	7454	7452	2	7438	7436	2	7738	7741	-3
9	7298	7296	2				7672	7668	4
10	7259	7250	9				7619	7621	-2
11	7148	7145	3				7528	7523	5
12	7125	7129	-4				7518	7511	7
13	7057	7053	4				7452	7458	-6
14	7038	7031	7				7448	7440	8
15	7018	7013	5				7442	7437	5
16	7031	7035	-4				7458	7454	4
17	6905	6908	-3				7332	7329	3
18	6821	6829	-8				7245	7241	4
19	6853	6859	-6				7148	7151	-3
20							7132	7137	-5
21							7062	7069	-7
22							7048	7049	-1
23							7035	7032	3
24							7048	7043	5
25							6878	6873	5
26							6849	6842	7
27							6872	6878	-6

Number	C		
	Glider	Manual	Delta
4	7828	7821	7
3	7824	7826	-2
2	7915	7910	5
1	7963	7960	3
1	7965	7960	5
2	7916	7910	6
3	7822	7826	-4
4	7822	7821	1

Number	C		
	Glider	Manual	Delta
8	7811	7811	0
7	7785	7790	-5
6	7768	7764	4
5	7785	7781	4
5	7779	7781	-2
6	7760	7764	-4
7	7785	7790	-5
8	7808	7811	-3

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Riser length

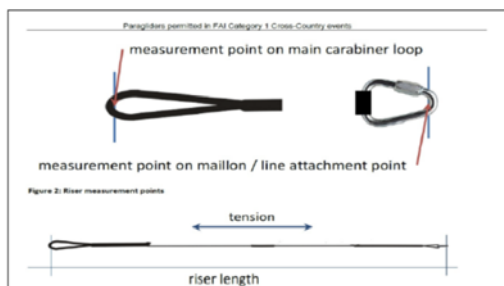
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	485	505	520	0	10
Glider	519	487	506	521	2	

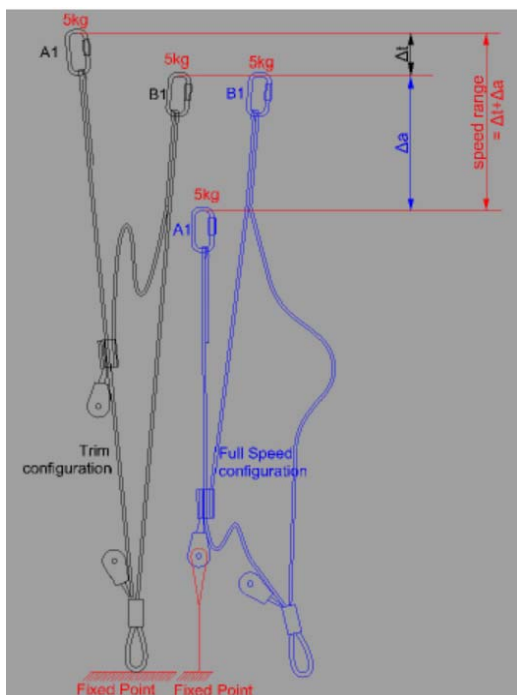
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	140	127	142

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

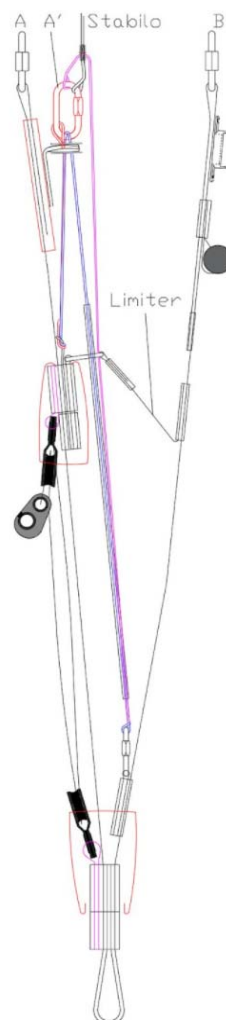
Riser measurment points



Riser measurment lengths



Riser drawing (manufacturer)





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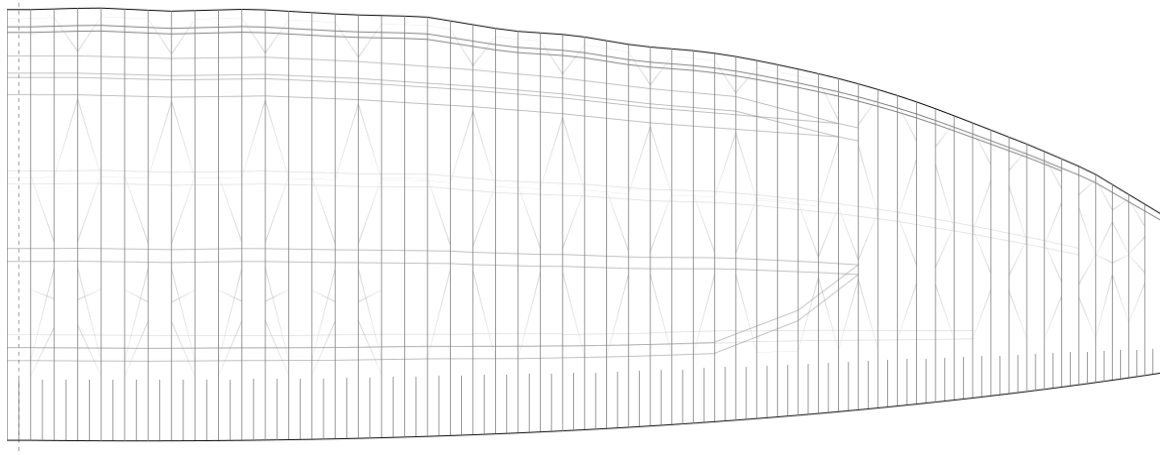
Table of line materials										
Upper										
	A1		A2		B		C		BR	
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid	
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
4	Edlerid	8001-070	Edlerid		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	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		Edlerid	8000-025		Edlerid			
18	Edlerid			Edlerid			Edlerid			
19	Edlerid			Edlerid			Edlerid			
20				Edlerid			Edlerid			
21				Edlerid			Edlerid			
22				Edlerid			Edlerid			
23				Edlerid			Edlerid			
24				Edlerid			Edlerid			
25				Edlerid	Edlerid					
26			Edlerid	Edlerid						
27			Edlerid	Edlerid						
H/middle										
	A			B				BR H/Middle		
1	Edlerid	8001-130		Edlerid	8001-050	Edlerid	8001-050	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	Edlerid		Edlerid						
9	Edlerid	8001-070		Edlerid	Edlerid	Edlerid				
10	Edlerid			Edlerid	Edlerid	Edlerid				
11	Edlerid			Edlerid	Edlerid	Edlerid				
12	Edlerid			Edlerid	Edlerid	Edlerid				
Middle										
	A			B				BR L/Middle		
1	Edlerid	8001-190		Edlerid	8001-070		Edlerid	8001-050		
2	Edlerid			Edlerid			Edlerid			
3	Edlerid			Edlerid			Edlerid			
4	Edlerid			Edlerid			Edlerid			
5	Edlerid	8001-090		Edlerid						
6	Edlerid	8001-090		Edlerid						
7	Edlerid	8001-025		Edlerid	8001-025					
Main										
	A			B				BR H/Main		
1	Edlerid	8001-340		Edlerid	8001-190		Edelrid	8001-090		
2	Edlerid			Edlerid	8001-190		BR L/Main			
3	Edlerid	8001-190		Edlerid	8001-090		GIN	TGL220		
STB H/Main	Edelrid	8001-070								
STB L/Main	Liros	PPSL-065								

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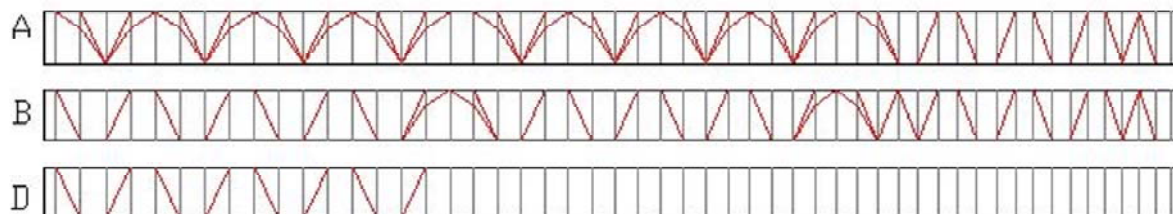
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (bottom view)



Diagonals (Front view)



Vent (Inlet) shape

