

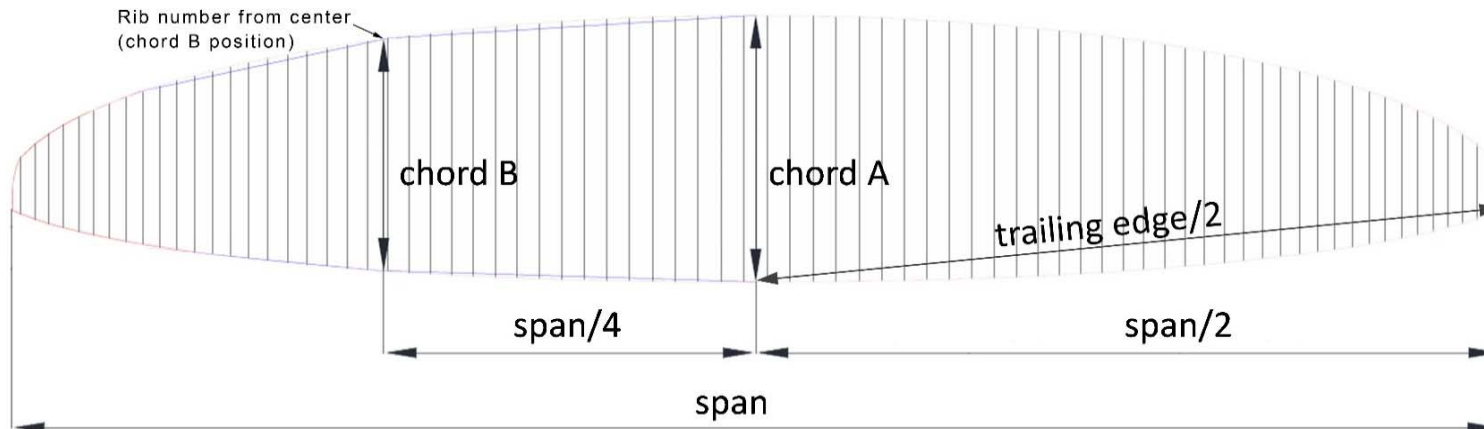
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	S	Test laboratory Cert. #	DHV GS-CCC-026-23
Model	Boomerang 12 (2023)	Serial #	BK08-Q8200290P	Certification date	24.01.2023

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		12561	5	+/-2%	7,52	105	1,00
1/2 Trailing Edge		6401	5	+/-1%			
Chord A		2037	1	+/-1%			
Chord B	23	1856	1	+/-1%			



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

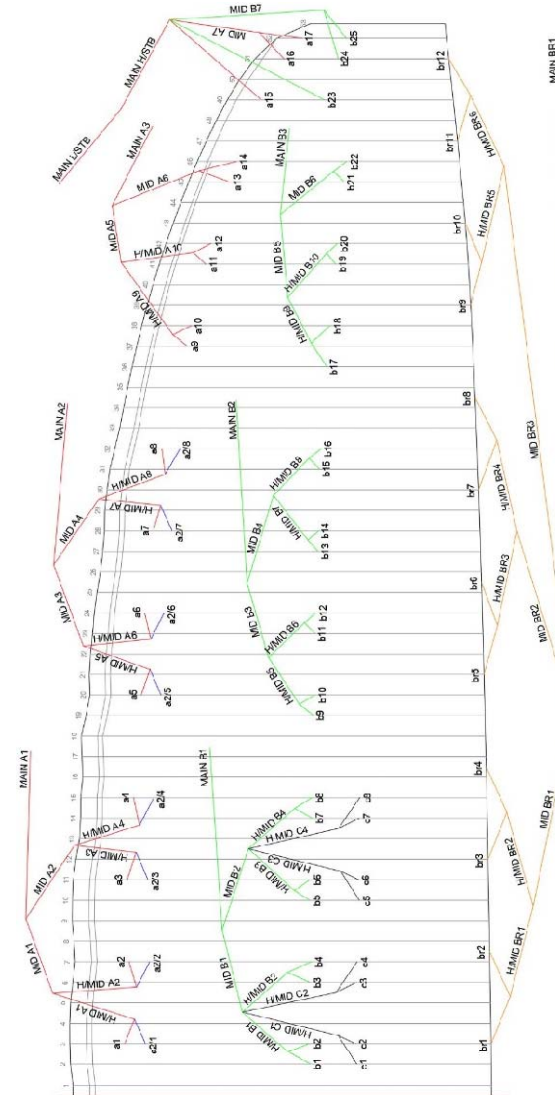
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2066	1	+/-1%
Top of inlet	2	1989	1	+/-1%
Bottom of inlet	2	1958	1	+/-1%
Tab Aa*	3	1818	1	+/-10mm
Tab Ab*	3	1710	1	+/-10mm
Tab B*	2	898	1	+/-10mm
Tab C*	2	670	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1635	1	+/-1%
Top of inlet	32	1570	1	+/-1%
Bottom of inlet	32	1554	1	+/-1%
Tab Aa*	32	1426	1	+/-10mm
Tab Ab*	32	1346	1	+/-10mm
Tab B*	32	713	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	643	1	+/-1%
Tab A*	52	548	1	+/-10mm
Tab B*	52	378	1	+/-10mm

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





Measurement Report Template

CIVL CCC 2020 (Version 1.0)

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
25							6980	6982	-2
24							6974	6977	-3
23							7028	7030	-2
22							7189	7193	-4
21							7195	7197	-2
20							7246	7253	-7
19							7257	7264	-7
18							7344	7353	-9
17	6985	6981	4				7439	7442	-3
16	6982	6981	1				7614	7612	2
15	7054	7054	0				7591	7591	0
14	7193	7192	1				7588	7584	4
13	7191	7197	-6				7599	7604	-5
12	7259	7260	-1				7662	7662	0
11	7275	7274	1				7671	7670	1
10	7380	7383	-3				7776	7772	4
9	7430	7430	0				7820	7826	-6
8	7628	7628	0	7615	7612	3	7890	7897	-7
7	7635	7631	4	7612	7609	3	7869	7867	2
6	7703	7701	2	7685	7681	4	7842	7839	3
5	7839	7842	-3	7819	7818	1	7849	7853	-4
4	7928	7933	-5	7905	7908	-3	7880	7885	-5
3	7890	7894	-4	7868	7870	-2	7893	7894	-1
2	7931	7934	-3	7912	7910	2	7982	7986	-4
1	8052	8052	0	8028	8026	2	8039	8043	-4
1	8053	8052	1	8027	8026	1	8038	8043	-5
2	7934	7934	0	7916	7910	6	7981	7986	-5
3	7895	7894	1	7875	7870	5	7895	7894	1
4	7930	7933	-3	7905	7908	-3	7881	7885	-4
5	7840	7842	-2	7816	7818	-2	7858	7853	5
6	7701	7701	0	7684	7681	3	7842	7839	3
7	7634	7631	3	7612	7609	3	7870	7867	3
8	7620	7628	-8	7609	7612	-3	7891	7897	-6
9	7428	7430	-2				7821	7826	-5
10	7384	7383	1				7773	7772	1
11	7272	7274	-2				7674	7670	4
12	7259	7260	-1				7668	7662	6
13	7196	7197	-1				7608	7604	4
14	7194	7192	2				7583	7584	-1
15	7052	7054	-2				7587	7591	-4
16	6984	6981	3				7614	7612	2
17	6985	6981	4				7435	7442	-7
18							7345	7353	-8
19							7256	7264	-8
20							7244	7253	-9
21							7199	7197	2
22							7186	7193	-7
23							7021	7030	-9
24							6972	6977	-5
25							6982	6982	0

Number	C		
	Glider	Manual	Delta
4	7936	7932	4
3	7941	7947	-6
2	8022	8029	-7
1	8086	8086	0
1	8084	8086	-2
2	8022	8029	-7
3	7942	7947	-5
4	7936	7932	4

Number	C		
	Glider	Manual	Delta
8	7943	7940	3
7	7912	7915	-3
6	7882	7887	-5
5	7902	7900	2
5	7904	7900	4
6	7885	7887	-2
7	7912	7915	-3
8	7942	7940	2

Measurement Report Template CIVL CCC 2020 (Version 1.0)

Riser length

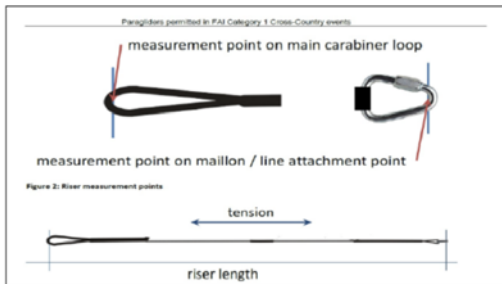
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	485	505	520	0	10
Glider	518	486	507	519	1	

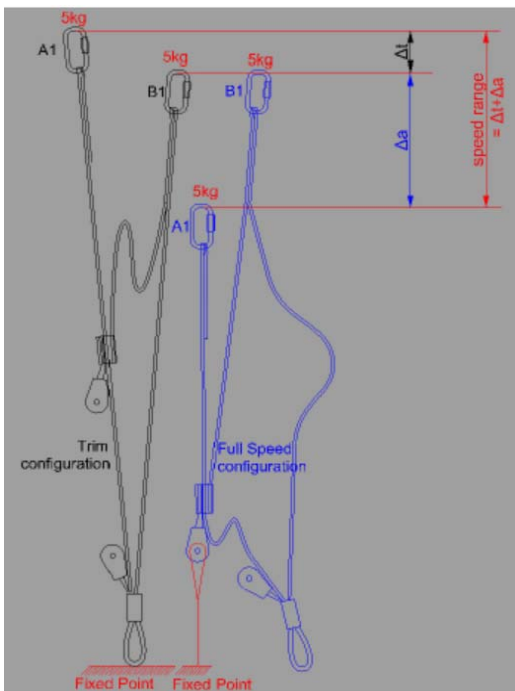
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	143	128	144

High speed setting	Δa (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	103	104

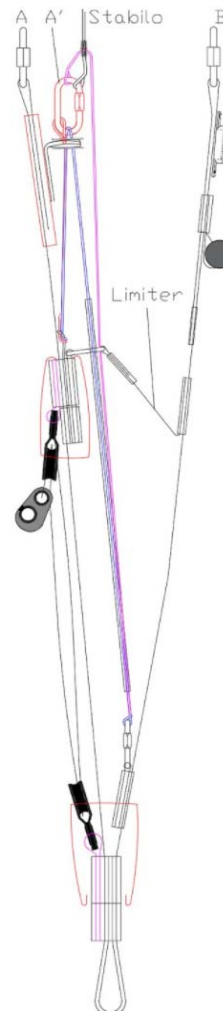
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



Measurement Report Template

CIVL CCC 2020 (Version 1.0)

Table of line materials

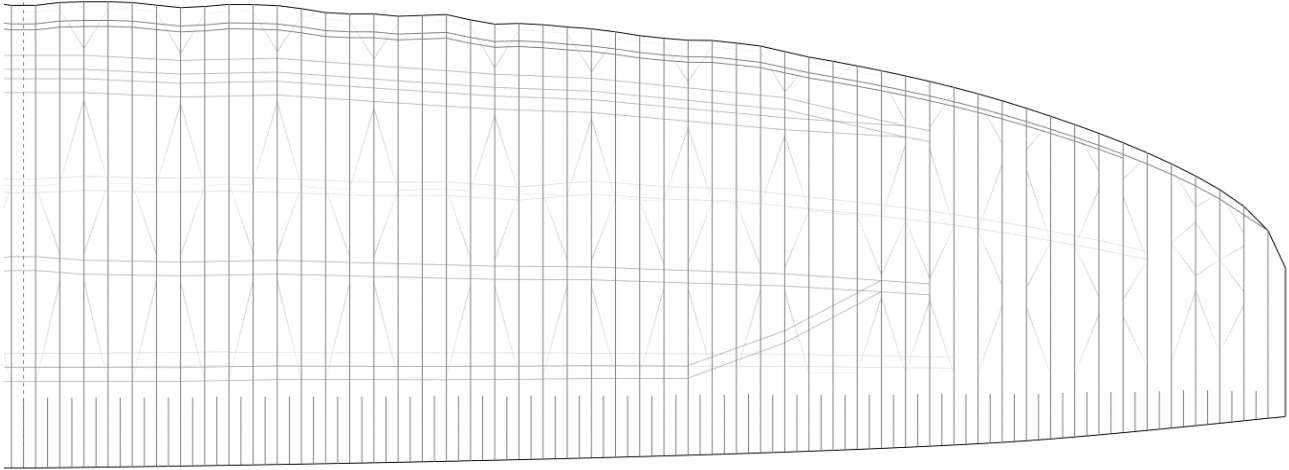
Table of line materials											
Upper											
	A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
4	Edlerid	8001-070	Edlerid		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	8000-025			Edlerid	Edlerid		Edlerid			Edlerid
15	Edlerid				Edlerid	Edlerid		Edlerid			Edlerid
16	Edlerid				Edlerid	Edlerid		Edlerid			Edlerid
17	Edlerid				Edlerid	Edlerid		Edlerid			Edlerid
18					Edlerid	8000-025		Edlerid			Edlerid
19			Edlerid	Edlerid	Edlerid						
20			Edlerid	Edlerid	Edlerid						
21			Edlerid	Edlerid	Edlerid						
22			Edlerid	Edlerid	Edlerid						
23			Edlerid	Edlerid	Edlerid						
24			Edlerid	Edlerid	Edlerid						
25			Edlerid	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	8001-050	Edlerid	Edlerid			
6	Edlerid				Edlerid		Edlerid				
7	Edlerid				Edlerid		Edlerid				
8	Edlerid	8001-070			Edlerid		Edlerid	Edlerid	Edlerid		
9	Edlerid				Edlerid		Edlerid				
10	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				Edlerid	Edlerid					
5	Edlerid				8001-090	Edlerid		8001-070		Edlerid	Edlerid
6	Edlerid				8001-050	Edlerid		8001-050		Edlerid	Edlerid
7	Edlerid				8001-025	Edlerid		8001-025		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		
STB H/Main	Edlerid	8001-070					GIN	TGL220			
STB L/Main	Liros	PPSL-065									

Measurement Report Template

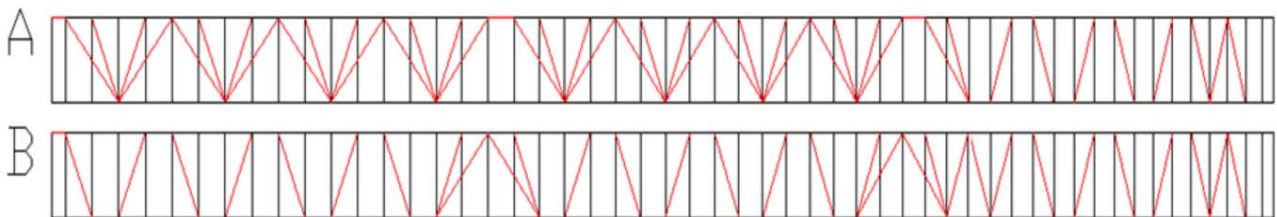
CIVL CCC 2020 (Version 1.0)

Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

