

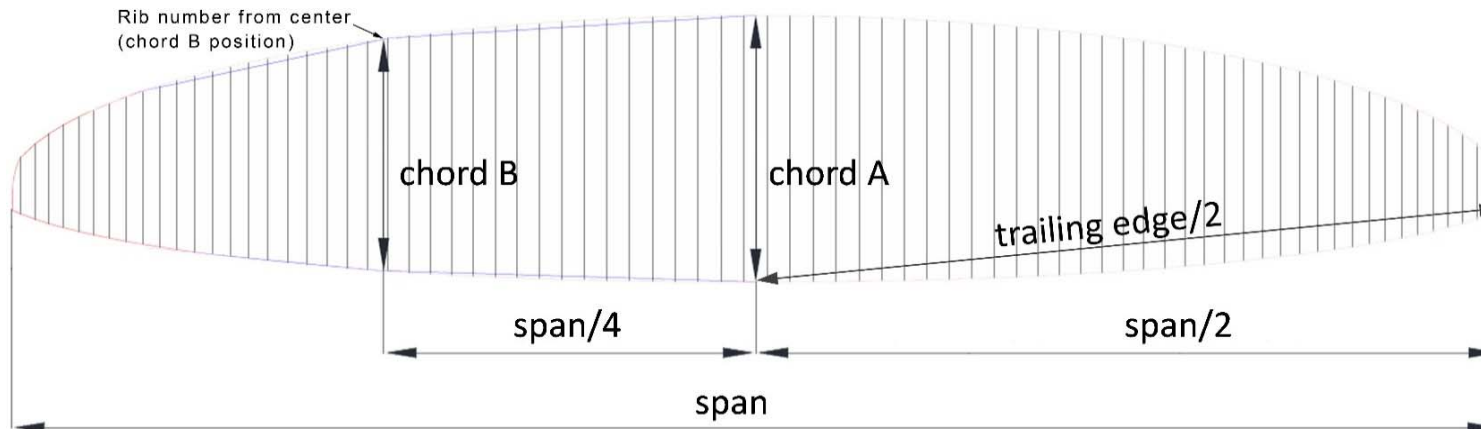
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	M	Test laboratory Cert. #	n/a
Model	Boomerang 12 (2023)	Serial #	BK08-Q8200288P	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		13100	5	+/-2%	7,53	105	1,04
1/2 Trailing Edge		6675	5	+/-1%			
Chord A		2122	1	+/-1%			
Chord B	23	1933	1	+/-1%			



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

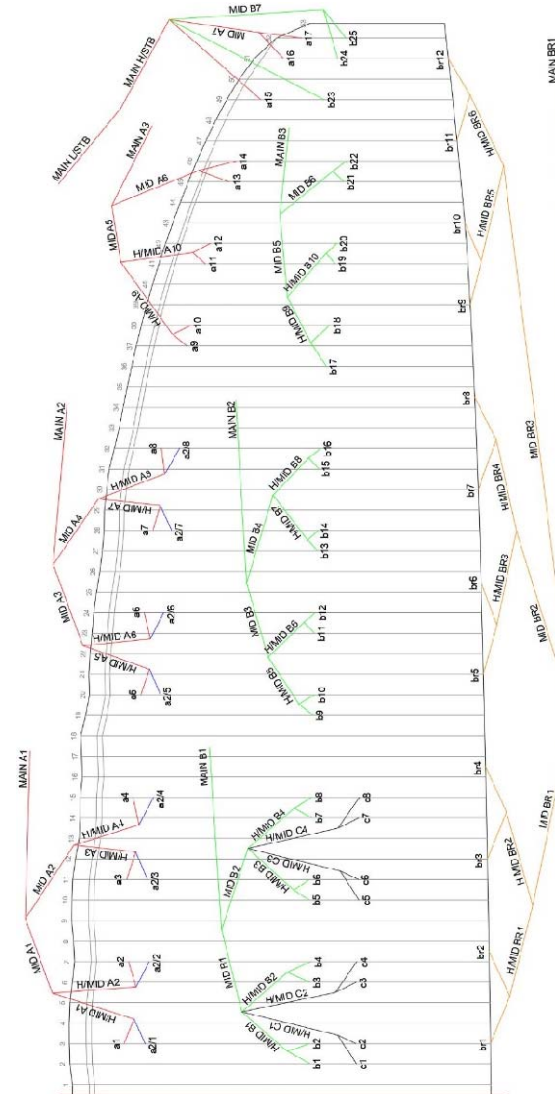
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2152	1	+/-1%
Top of inlet	2	2072	1	+/-1%
Bottom of inlet	2	2039	1	+/-1%
Tab Aa*	3	1893	1	+/-10mm
Tab Ab*	3	1782	1	+/-10mm
Tab B*	2	935	1	+/-10mm
Tab C*	2	698	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1703	1	+/-1%
Top of inlet	32	1635	1	+/-1%
Bottom of inlet	32	1619	1	+/-1%
Tab Aa*	32	1485	1	+/-10mm
Tab Ab*	32	1401	1	+/-10mm
Tab B*	32	742	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	669	1	+/-1%
Tab A*	52	571	1	+/-10mm
Tab B*	52	393	1	+/-10mm

*Bridle (tab) position measurement:
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
25							7293	7293	0
24							7296	7297	-1
23							7356	7355	1
22							7512	7519	-7
21							7522	7523	-1
20							7569	7581	-12
19							7589	7593	-4
18							7675	7683	-8
17	7289	7285	4				7774	7774	0
16	7287	7298	-11				7937	7946	-9
15	7384	7378	6				7928	7925	3
14	7519	7517	2				7915	7918	-3
13	7525	7523	2				7935	7938	-3
12	7583	7588	-5				7995	7995	0
11	7601	7603	-2				7996	8004	-8
10	7717	7713	4				8105	8106	-1
9	7759	7762	-3				8156	8161	-5
8	7952	7965	-13	7952	7949	3	8236	8233	3
7	7959	7967	-8	7943	7945	-2	8206	8203	3
6	8033	8037	-4	8020	8017	3	8177	8172	5
5	8178	8179	-1	8155	8156	-1	8197	8186	11
4	8265	8271	-6	8244	8247	-3	8221	8218	3
3	8229	8229	0	8209	8206	3	8231	8227	4
2	8267	8270	-4	8244	8246	-2	8327	8321	6
1	8387	8390	-3	8358	8364	-6	8376	8379	-3
1	8383	8390	-7	8356	8364	-8	8377	8379	-2
2	8264	8270	-6	8245	8246	-1	8321	8321	0
3	8230	8229	1	8208	8206	2	8232	8227	5
4	8269	8271	-2	8246	8247	-2	8222	8218	4
5	8170	8179	-9	8151	8156	-5	8188	8186	2
6	8033	8037	-4	8012	8017	-5	8174	8172	2
7	7959	7967	-8	7939	7945	-6	8207	8203	4
8	7960	7965	-5	7951	7949	2	8237	8233	4
9	7762	7762	0				8155	8161	-7
10	7717	7713	4				8101	8106	-5
11	7609	7603	6				8000	8004	-4
12	7587	7588	-1				7992	7995	-3
13	7526	7523	3				7937	7938	-1
14	7522	7517	5				7918	7918	0
15	7377	7378	-1				7928	7925	3
16	7302	7298	4				7937	7946	-9
17	7289	7285	4				7775	7774	1
18							7681	7683	-2
19							7594	7593	1
20							7578	7581	-3
21							7529	7523	6
22							7520	7519	1
23							7358	7355	3
24							7300	7297	3
25							7298	7293	5

Number	C		
	Glider	Manual	Delta
4	8269	8268	1
3	8284	8277	7
2	8372	8366	6
1	8426	8424	2
1	8424	8424	0
2	8368	8366	2
3	8285	8277	8
4	8272	8268	4

Number	C		
	Glider	Manual	Delta
8	8274	8277	-3
7	8256	8251	5
6	8220	8222	-2
5	8236	8234	2
5	8237	8234	3
6	8225	8222	3
7	8250	8251	-1
8	8279	8277	2

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Riser length

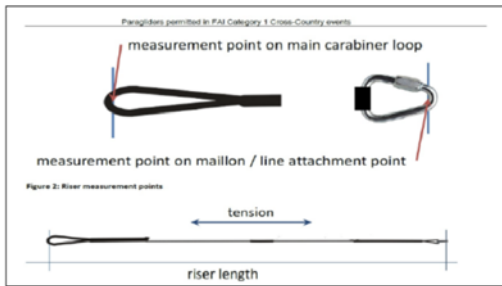
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	485	505	520	0	10
Glider	517	487	506	518	1	

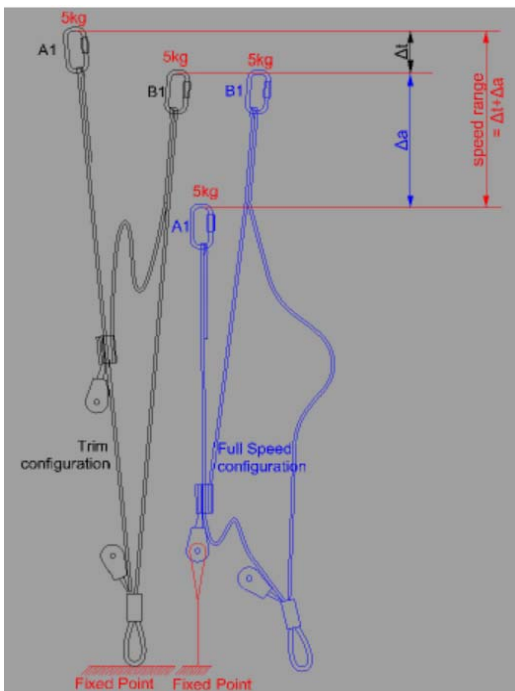
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	141	126	142

High speed setting	Δa (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	101	102

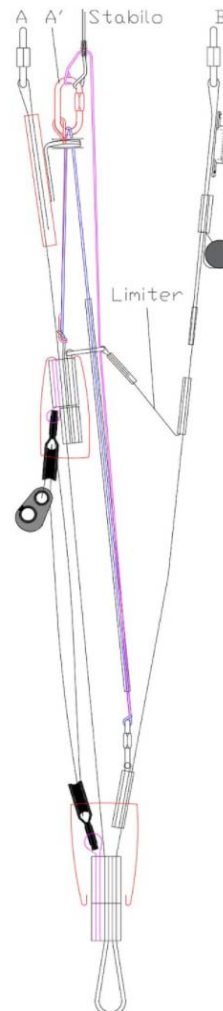
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



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Table of line materials

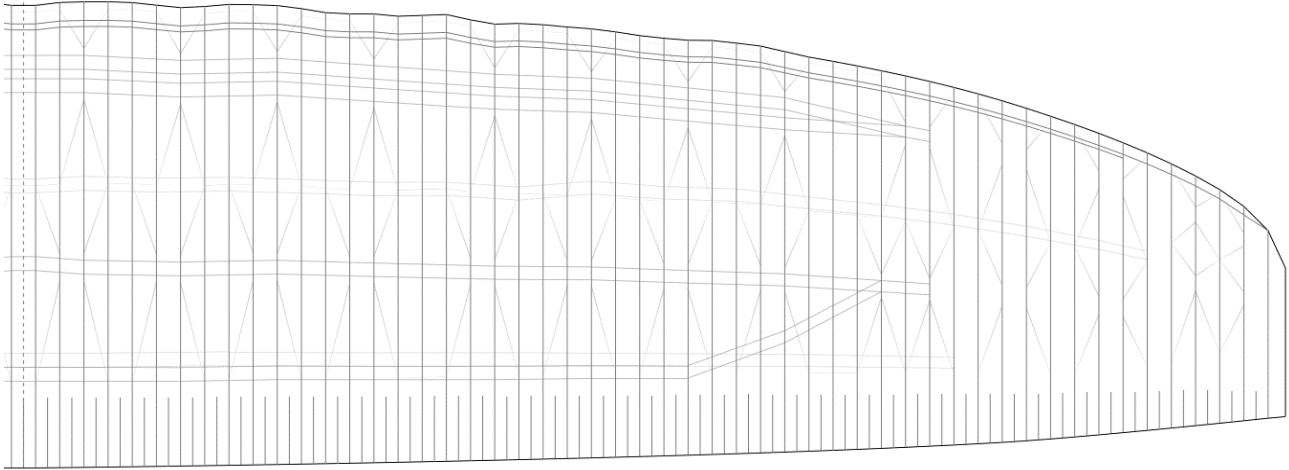
Table of line materials											
Upper											
	A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
4	Edlerid	8001-070	Edlerid		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	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	Edlerid			
10	Edlerid				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									

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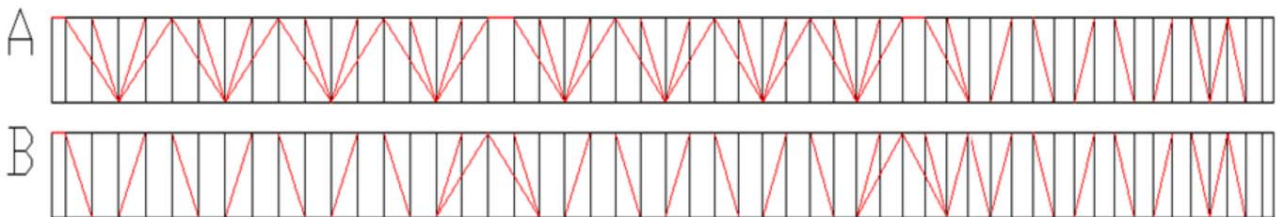
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

