

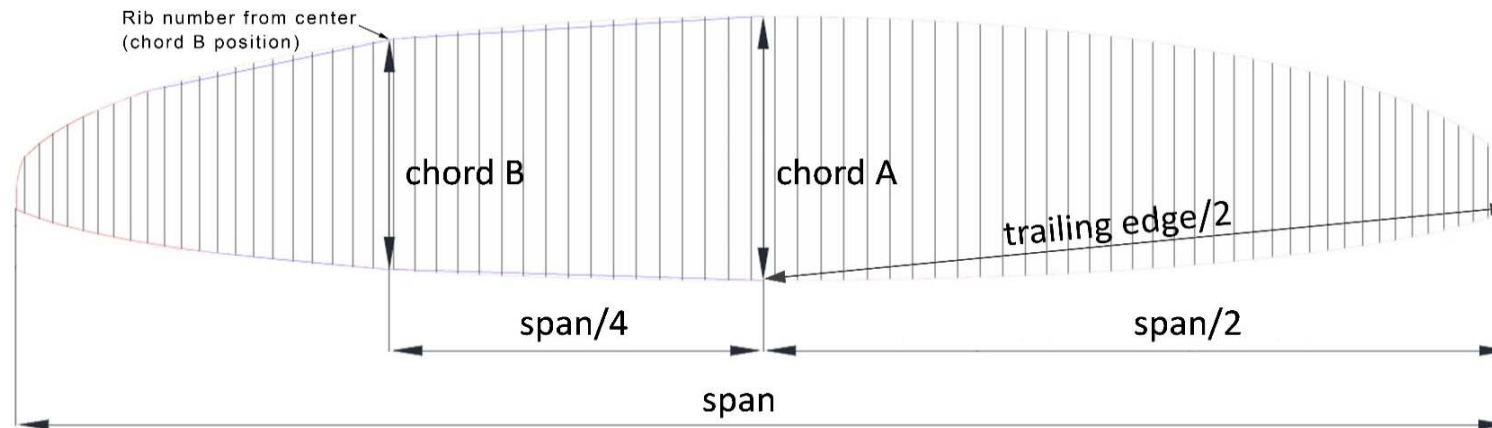
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	M	Test laboratory Cert. #	n/a
Model	Boomerang 12 (2022)	Serial #	BK08-Q8200288P	Certification date	22.03.2022

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.

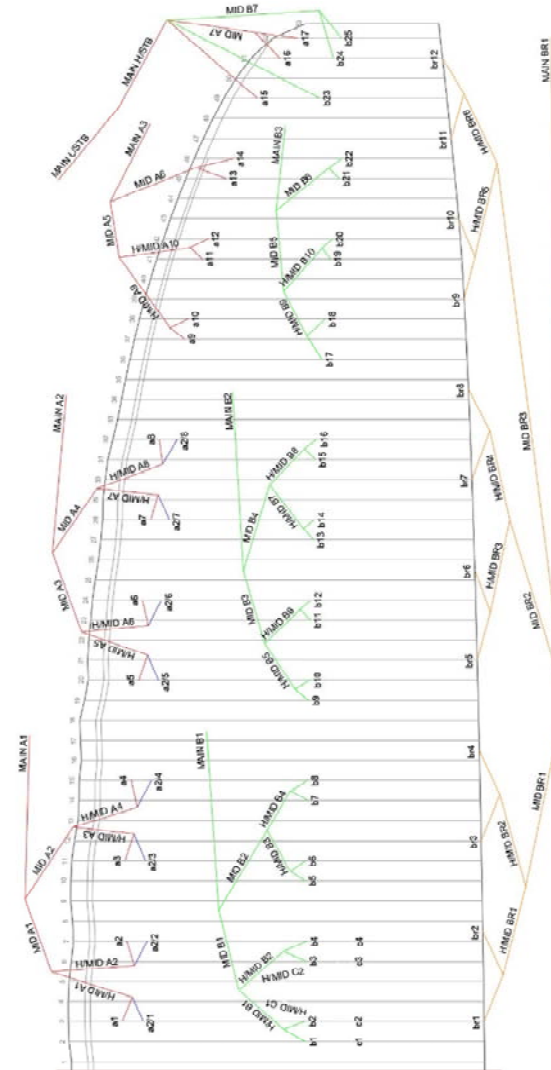
(The tab A & B & C can be on different rib, take care to specify it)

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	7291	2
24							7296	7294	2
23							7356	7367	-11
22							7528	7533	-5
21							7538	7537	1
20							7585	7596	-11
19							7605	7608	-3
18							7691	7699	-8
17	7289	7283	6				7790	7790	0
16	7287	7296	-9				7953	7962	-9
15	7384	7375	9				7944	7942	2
14	7519	7515	4				7931	7935	-4
13	7525	7520	5				7951	7955	-4
12	7583	7585	-2				8011	8012	-1
11	7601	7600	1				8012	8021	-9
10	7717	7710	7				8121	8124	-3
9	7759	7759	0				8172	8179	-7
8	7952	7962	-10	7952	7946	6	8252	8251	1
7	7959	7963	-4	7943	7942	1	8222	8220	2
6	8033	8033	0	8020	8013	7	8193	8190	3
5	8178	8176	2	8155	8152	3	8213	8204	9
4	8265	8267	-2	8244	8243	1	8237	8236	1
3	8229	8225	4	8209	8202	7	8247	8245	2
2	8267	8266	1	8244	8242	2	8343	8339	4
1	8387	8386	1	8358	8360	-2	8392	8397	-5
1	8383	8386	-3	8356	8360	-4	8393	8397	-4
2	8264	8266	-2	8245	8242	3	8337	8339	-2
3	8230	8225	5	8208	8202	6	8248	8245	3
4	8269	8267	2	8246	8243	3	8238	8236	2
5	8170	8176	-6	8151	8152	-1	8204	8204	0
6	8033	8033	0	8012	8013	-1	8190	8190	0
7	7959	7963	-4	7939	7942	-3	8223	8220	3
8	7960	7962	-2	7951	7946	5	8253	8251	2
9	7762	7759	3				8171	8179	-9
10	7717	7710	7				8117	8124	-7
11	7609	7600	9				8016	8021	-5
12	7587	7585	2				8008	8012	-4
13	7526	7520	6				7953	7955	-2
14	7522	7515	7				7934	7935	-1
15	7377	7375	2				7944	7942	2
16	7302	7296	6				7953	7962	-9
17	7289	7283	6				7791	7790	1
18							7697	7699	-2
19							7610	7608	2
20							7594	7596	-2
21							7545	7537	8
22							7536	7533	3
23							7358	7367	-9
24							7300	7294	6
25							7298	7291	7

Number	C		
	Glider	Manual	Delta
4	8284,9	8284	1
3	8299,5	8298	2
2	8388,2	8384	4
1	8441,8	8442	0
1	8440	8442	-2
2	8383,9	8384	0
3	8300,6	8298	3
4	8287,8	8284	4

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Riser length

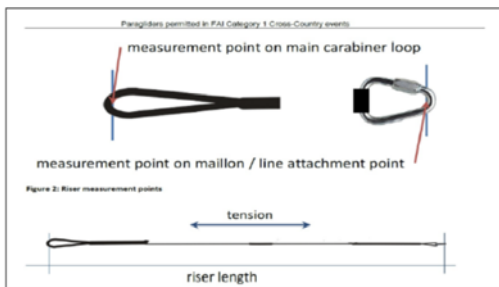
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

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	

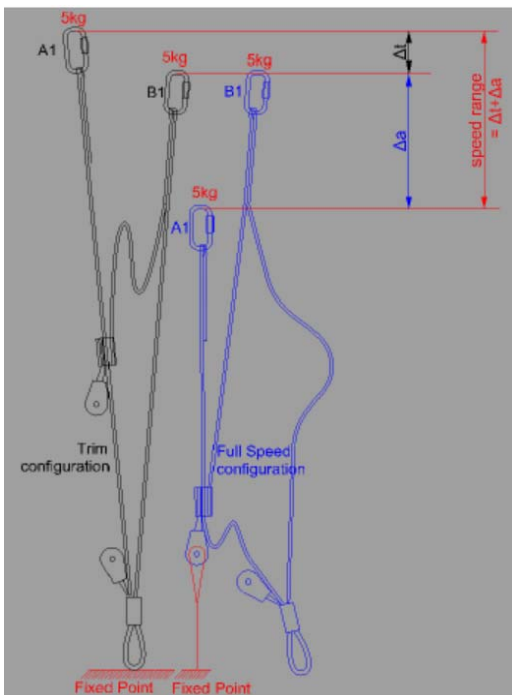
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	141	126	142

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

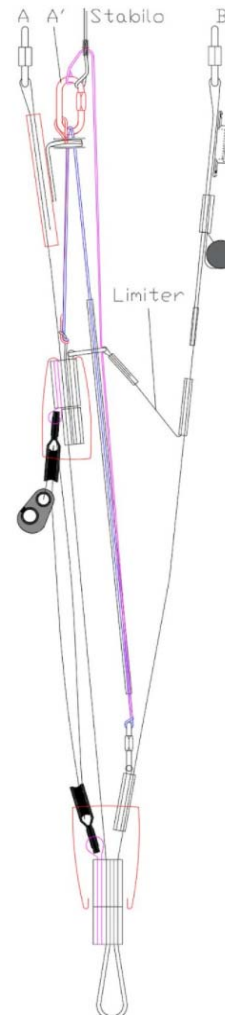
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



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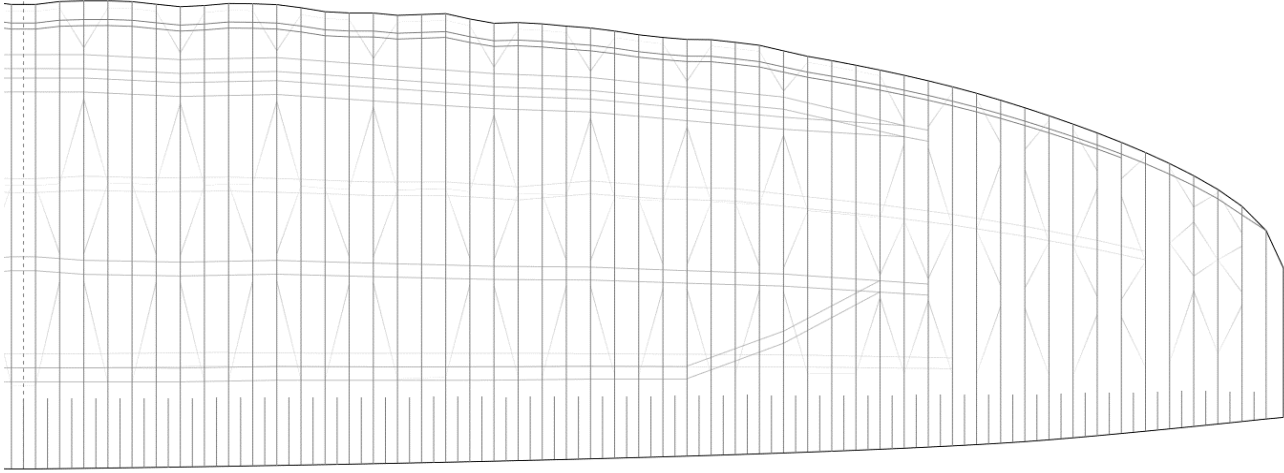
Table of line materials

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			Edlerid
10	Edlerid				Edlerid			Edlerid			
11	Edlerid				Edlerid	Edlerid					
12	Edlerid				Edlerid	Edlerid					
13	Edlerid				Edlerid	Edlerid					
14	Edlerid	Edlerid			Edlerid						
15	Edlerid	8000-025			Edlerid	Edlerid					
16	Edlerid				Edlerid	Edlerid					
17	Edlerid				Edlerid	Edlerid					
18					Edlerid	8000-025		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			
2	Edlerid				Edlerid		Edlerid				
3	Edlerid				Edlerid		Edlerid				
4	Edlerid	Edlerid			Edlerid						
5	Edlerid	8001-090			Edlerid		Edlerid				
6	Edlerid				Edlerid		Edlerid				
7	Edlerid				Edlerid		Edlerid				
8	Edlerid	8001-070			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		
6	Edlerid				8001-050		Edlerid		8001-050		
7	Edlerid				8001-025		Edlerid		8001-025		
Main											
	A		B		BR H/Main						
1	Edlerid	8001-340			Edlerid	8001-190	Edlerid	8001-090			
2	Edlerid				Edlerid		8001-190				
3	Edlerid				8001-190		Edlerid		8001-090		
STB H/Main	Edlerid	8001-070					GIN	TGL220			
STB L/Main	Liros	PSSL-065									

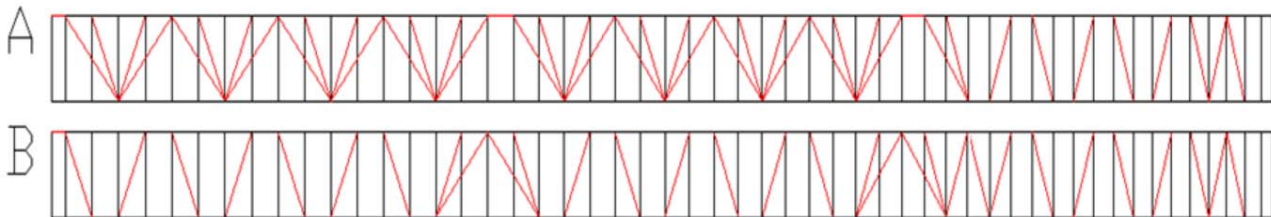
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

