

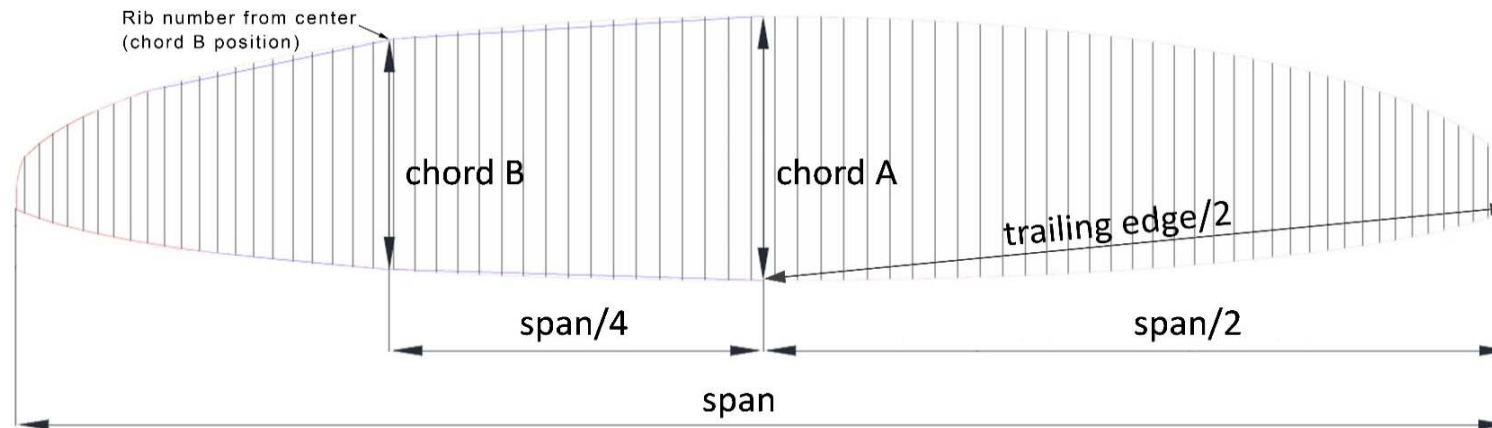
Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	SM	Test laboratory Cert. #	n/a
Model	Boomerang 12 (2022)	Serial #	BK08-Q8200291P	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		12834	5	+/-2%	7,53	105	1,02
1/2 Trailing Edge		6542	5	+/-1%			
Chord A		2080	1	+/-1%			
Chord B	23	1894	1	+/-1%			



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

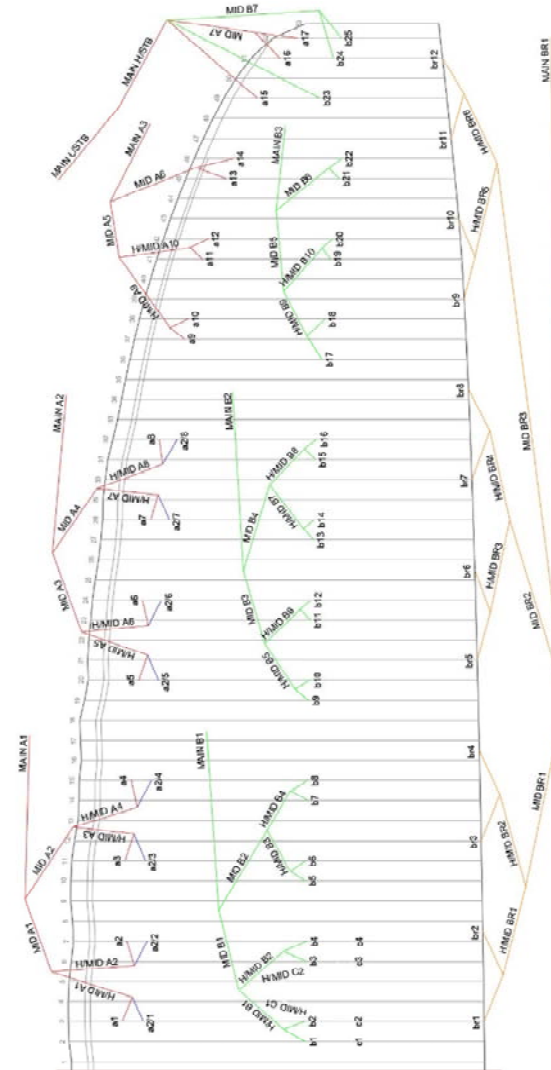
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2094	1	+/-1%
Top of inlet	2	2011	1	+/-1%
Bottom of inlet	2	1984	1	+/-1%
Tab Aa*	3	1851	1	+/-10mm
Tab Ab*	3	1746	1	+/-10mm
Tab B*	2	906	1	+/-10mm
Tab C*	2	674	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1659	1	+/-1%
Top of inlet	32	1593	1	+/-1%
Bottom of inlet	32	1571	1	+/-1%
Tab Aa*	32	1446	1	+/-10mm
Tab Ab*	32	1364	1	+/-10mm
Tab B*	32	718	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	648	1	+/-1%
Tab A*	52	551	1	+/-10mm
Tab B*	52	378	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							7146	7142	4
24							7142	7145	-3
23							7217	7217	0
22							7389	7379	10
21							7385	7383	2
20							7442	7440	2
19							7456	7451	5
18							7548	7540	8
17	7136	7135	1				7625	7630	-5
16	7141	7147	-6				7806	7802	4
15	7226	7224	2				7785	7780	5
14	7364	7362	2				7774	7773	1
13	7364	7367	-3				7790	7792	-2
12	7435	7430	5				7842	7849	-7
11	7441	7445	-4				7856	7857	-1
10	7556	7552	4				7954	7959	-5
9	7605	7601	4				8016	8014	2
8	7792	7799	-7	7789	7784	5	8086	8084	2
7	7805	7800	5	7775	7779	-4	8051	8053	-2
6	7864	7869	-5	7842	7849	-7	8026	8024	2
5	8001	8009	-8	7983	7986	-3	8031	8038	-7
4	8105	8100	5	8071	8076	-5	8076	8070	6
3	8051	8058	-7	8034	8035	-1	8077	8078	-1
2	8096	8098	-2	8076	8075	1	8176	8171	5
1	8215	8217	-2	8194	8192	2	8224	8228	-4
1	8216	8217	-1	8193	8192	1	8227	8228	-1
2	8094	8098	-4	8071	8075	-4	8176	8171	5
3	8056	8058	-2	8036	8035	1	8074	8078	-4
4	8106	8100	6	8078	8076	2	8075	8070	5
5	8005	8009	-4	7986	7986	0	8039	8038	1
6	7865	7869	-4	7848	7849	-1	8029	8024	5
7	7803	7800	3	7775	7779	-4	8054	8053	1
8	7794	7799	-5	7784	7784	0	8082	8084	-2
9	7605	7601	4				8016	8014	2
10	7553	7552	1				7951	7959	-8
11	7441	7445	-4				7856	7857	-1
12	7436	7430	6				7846	7849	-3
13	7361	7367	-6				7796	7792	4
14	7365	7362	3				7774	7773	1
15	7224	7224	0				7784	7780	4
16	7145	7147	-2				7806	7802	4
17	7139	7135	4				7635	7630	5
18							7546	7540	6
19							7458	7451	7
20							7442	7440	2
21							7383	7383	0
22							7374	7379	-5
23							7219	7217	2
24							7146	7145	1
25							7144	7142	2

Number	C		
	Glider	Manual	Delta
4	8114	8117	-3
3	8136	8131	5
2	8217	8216	1
1	8276	8273	3
1	8274	8273	1
2	8214	8216	-2
3	8131	8131	0
4	8114	8117	-3

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Riser length

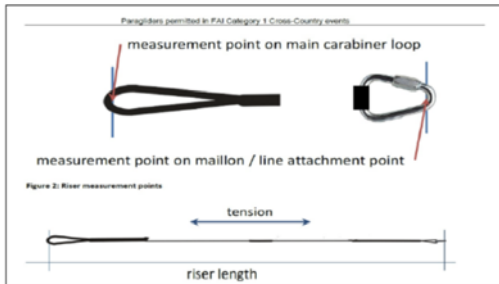
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	Δt (= A1-B)	Attachment rod \varnothing [mm]
Manual	520	485	505	520	0	10
Glider	519	486	508	518	-1	

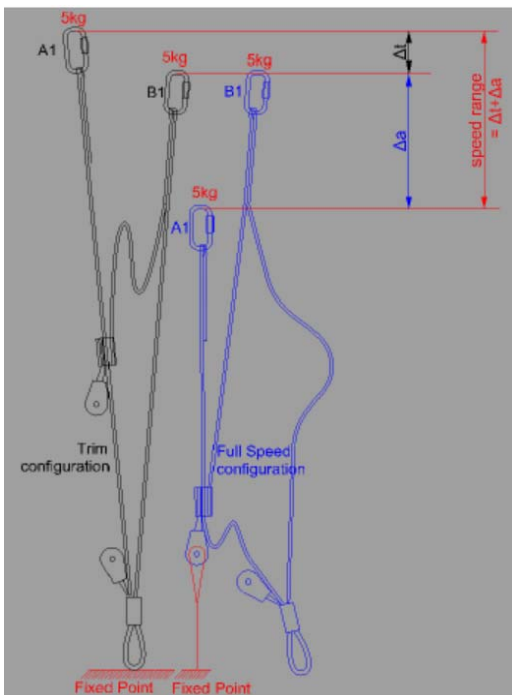
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider	140	128	139

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

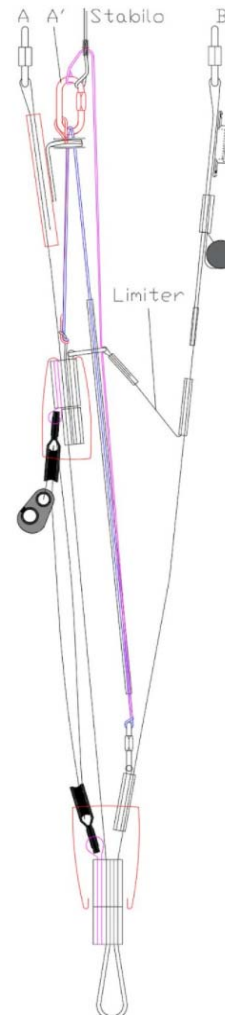
Riser measurement points



Riser measurement lengths



Riser drawing (manufacturer)



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Table of line materials

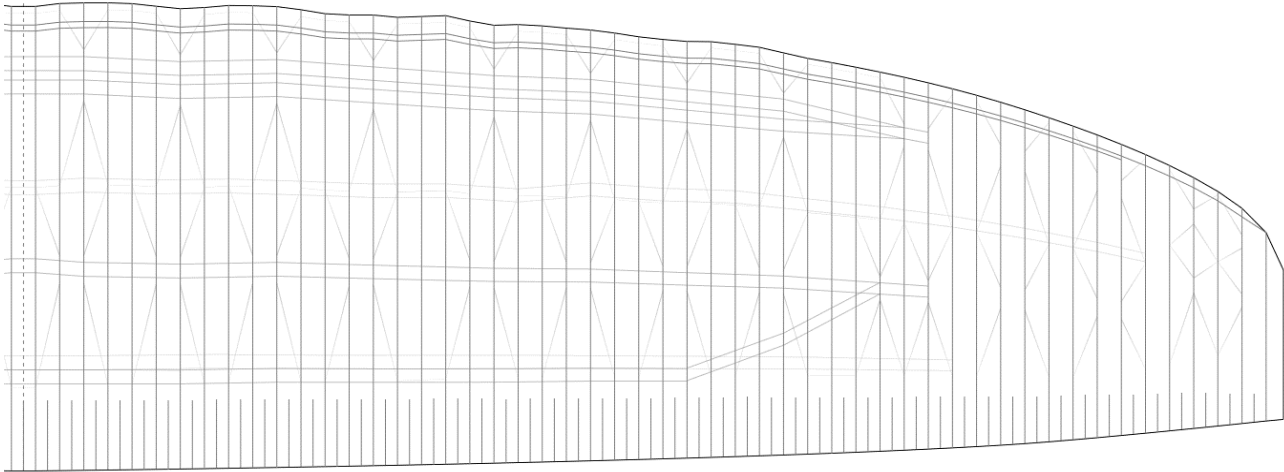
Table of line materials											
Upper											
	A1		A2		B		C		BR		
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025	
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid		
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid		
4	Edlerid	8001-070	Edlerid		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	8000-025			Edlerid					Edlerid	
16	Edlerid				Edlerid					Edlerid	
17	Edlerid				Edlerid					Edlerid	
18										Edlerid	8000-025
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		
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	Edlerid		
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	Edlerid		
2	Edlerid				Edlerid	8001-190	Edlerid	8001-190	BR L/Main		
3	Edlerid				8001-190	Edlerid	8001-090	GIN	TGL220		
STB H/Main	Edlerid	8001-070									
STB L/Main	Liros	PSSL-065									

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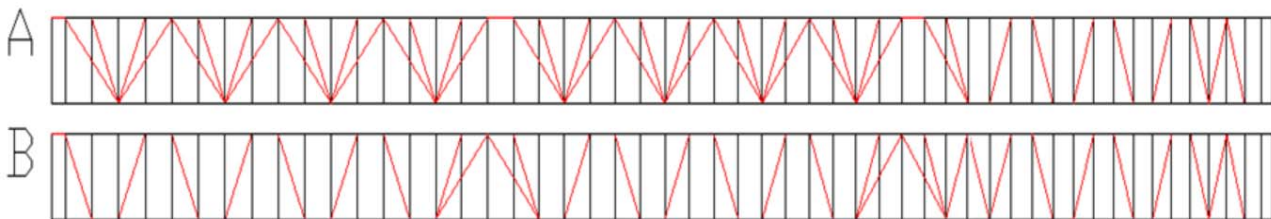
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

