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Maison du Sport International, Av. de Rhodanie 54, CH-1007 Lausanne

Measurement Report Template

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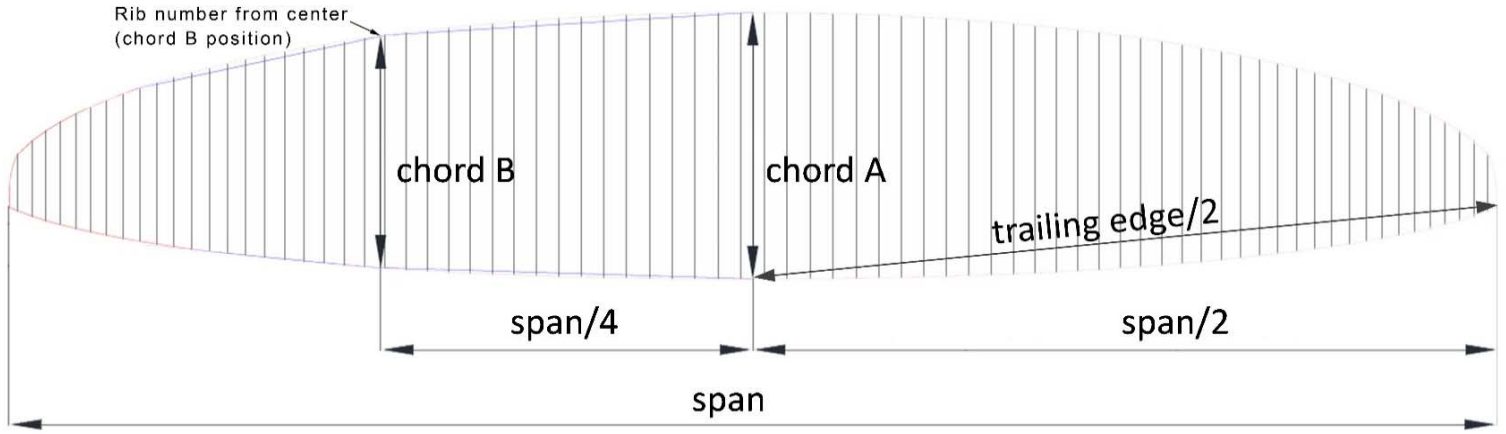
Brand	Gin Gliders Inc.	**Size**	SM	**Test laboratory | Cert. #**	n/a
Model	Boomerang 12 (2023)	**Serial #**	BK08-Q8200291P	**Certification date**	24.01.2023

Canopy dimensions

Position	Rib # from center	Distance [mm]	Tension [daN]	Manual tolerances	Aspect ratio 4*span / (chord A+2.5*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 lenght, inlet position, tabs position measured from trailing edge.

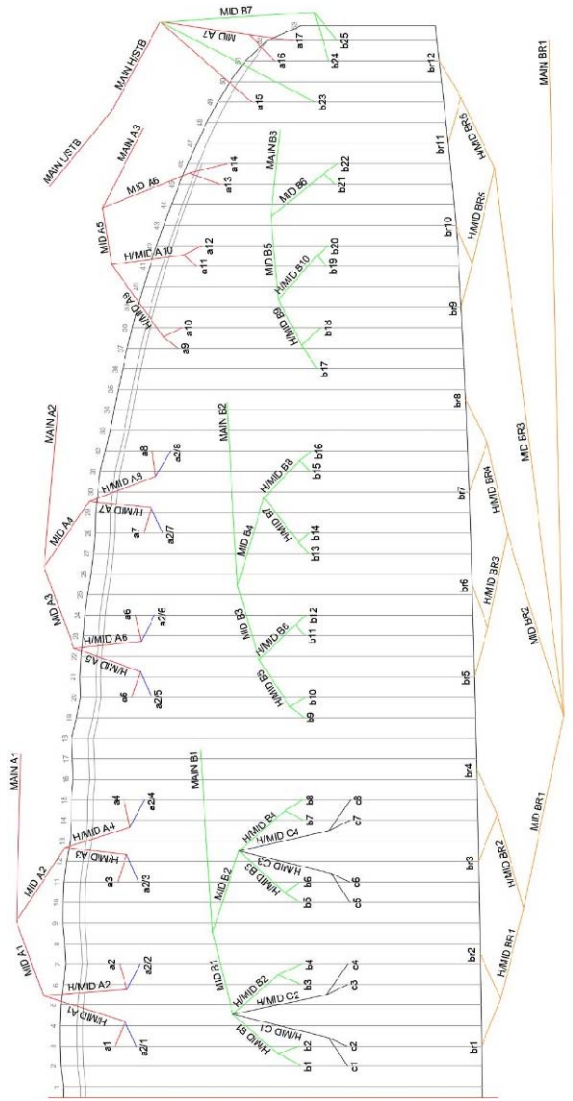
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	**Rib n° from center**	**Distance [mm]**	**Tension [daN]**	**Manual tolerances**
Chord	2	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 measuremt:
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	7143	3
24							7142	7146	-4
23							7201	7202	-1
22							7373	7365	8
21							7369	7369	0
20							7426	7425	1
19							7440	7436	4
18							7532	7525	7
17	7136	7136	0				7609	7615	-6
16	7141	7148	-7				7790	7786	4
15	7226	7225	1				7769	7765	4
14	7364	7364	0				7758	7757	1
13	7364	7369	-5				7774	7777	-3
12	7435	7434	1				7826	7835	-9
11	7441	7449	-8				7840	7843	-3
10	7556	7557	-1				7938	7945	-7
9	7605	7605	0				8000	7999	1
8	7792	7802	-10	7789	7787	2	8070	8066	4
7	7805	7804	1	7775	7783	-8	8035	8036	-1
6	7864	7871	-7	7842	7852	-10	8010	8006	4
5	8001	8012	-11	7983	7989	-6	8015	8020	-5
4	8105	8103	2	8071	8080	-9	8060	8052	8
3	8051	8062	-11	8034	8039	-5	8061	8060	1
2	8096	8102	-6	8076	8079	-3	8160	8153	7
1	8215	8221	-6	8194	8196	-2	8208	8210	-2
1	8216	8221	-5	8193	8196	-3	8211	8210	1
2	8094	8102	-8	8071	8079	-8	8160	8153	7
3	8056	8062	-6	8036	8039	-3	8058	8060	-2
4	8106	8103	3	8078	8080	-2	8059	8052	7
5	8005	8012	-7	7986	7989	-3	8023	8020	3
6	7865	7871	-6	7848	7852	-4	8013	8006	7
7	7803	7804	-1	7775	7783	-8	8038	8036	2
8	7794	7802	-8	7784	7787	-3	8066	8066	0
9	7605	7605	0				8000	7999	1
10	7553	7557	-4				7935	7945	-10
11	7441	7449	-8				7840	7843	-3
12	7436	7434	2				7830	7835	-5
13	7361	7369	-8				7780	7777	3
14	7365	7364	1				7758	7757	1
15	7224	7225	-1				7768	7765	3
16	7145	7148	-3				7790	7786	4
17	7139	7136	3				7619	7615	4
18							7530	7525	5
19							7442	7436	6
20							7426	7425	1
21							7367	7369	-2
22							7358	7365	-7
23							7203	7202	1
24							7146	7146	0
25							7144	7143	1

Number	C		
	Glider	Manual	Delta
4	8098	8101	-3
3	8120	8110	10
2	8201	8197	4
1	8260	8254	6
1	8258	8254	4
2	8198	8197	1
3	8115	8110	5
4	8098	8101	-3

Number	C		
	Glider	Manual	Delta
8	8105	8108	-3
7	8085	8082	3
6	8055	8054	1
5	8062	8066	-4
5	8064	8066	-2
6	8051	8054	-3
7	8082	8082	0
8	8109	8108	1

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Riser length

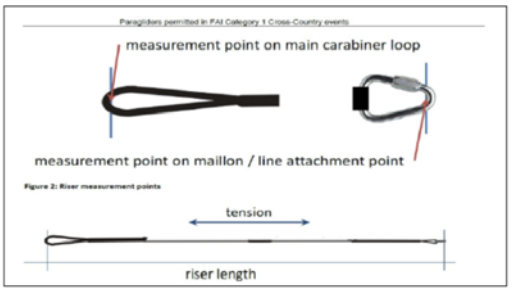
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

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

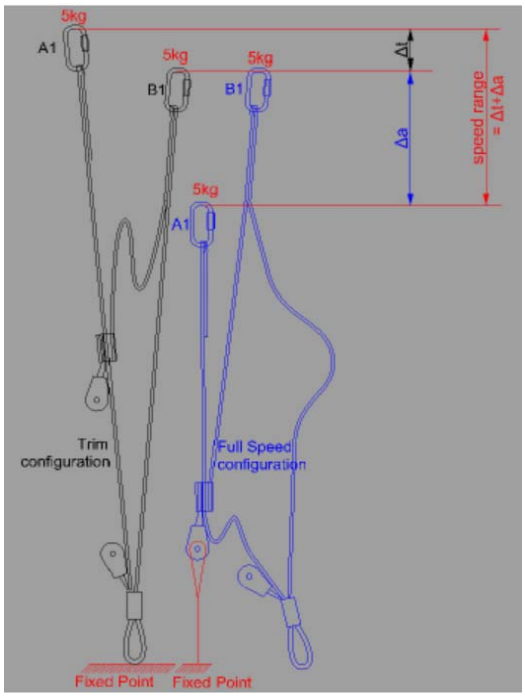
Full speed setting	Δa (=B-A)	B-A'	Total speed range (Δt+Δa)
Manual	142	125	142
Glider	140	128	139

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

Riser measurment points



Riser measurment lengths



Riser drawing (manufacturer)

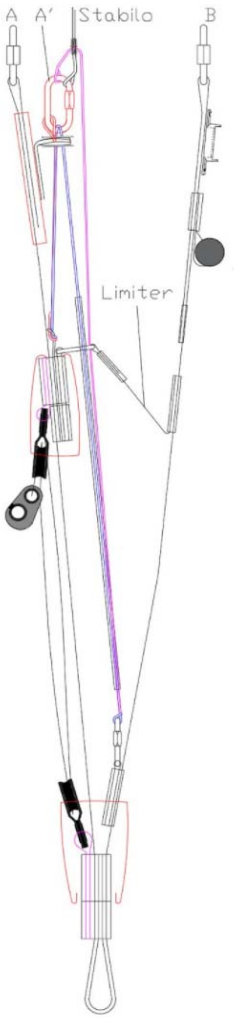


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Table of line materials

Upper

	A1		A2		B		C		BR	
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid		Edlerid		Edlerid	
2	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
4	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
5	Edlerid	8001-090	Edlerid	8001-050	Edlerid		Edlerid	8001-025	Edlerid	
6	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
7	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	8001-025
8	Edlerid	8001-070	Edlerid		Edlerid	8001-050	Edlerid		Edlerid	
9	Edlerid				Edlerid				Edlerid	
10	Edlerid				Edlerid				Edlerid	
11	Edlerid	8001-050			Edlerid				Edlerid	
12	Edlerid				Edlerid				Edlerid	
13	Edlerid				Edlerid					
14	Edlerid				Edlerid					
15	Edlerid				Edlerid					
16	Edlerid	8000-025			Edlerid					
17	Edlerid				Edlerid					
18					Edlerid					
19					Edlerid					
20					Edlerid					
21					Edlerid	8000-025				
22					Edlerid					
23					Edlerid					
24					Edlerid					
25					Edlerid					

H/middle

	A			B			BR H/Middle	
1	Edlerid	8001-130		Edlerid		Edlerid		
2	Edlerid			Edlerid		Edlerid		
3	Edlerid			Edlerid		Edlerid	8001-050	
4	Edlerid			Edlerid		Edlerid		8001-025
5	Edlerid	8001-090		Edlerid				
6	Edlerid			Edlerid	8001-050			
7	Edlerid			Edlerid				
8	Edlerid			Edlerid				
9	Edlerid	8001-070		Edlerid				
10	Edlerid			Edlerid				

Middle

	A			B			BR L/Middle	
1	Edlerid	8001-190		Edlerid			Edlerid	
2	Edlerid			Edlerid	8001-090		Edlerid	8001-050
3	Edlerid			Edlerid			Edlerid	
4	Edlerid			Edlerid	8001-070			
5	Edlerid	8001-090		Edlerid				
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		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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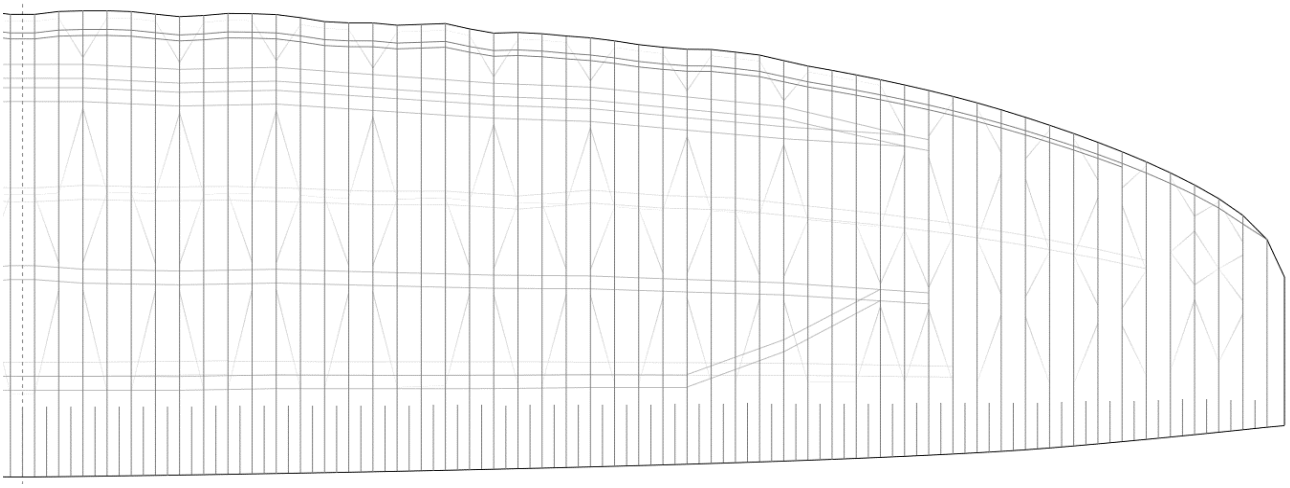
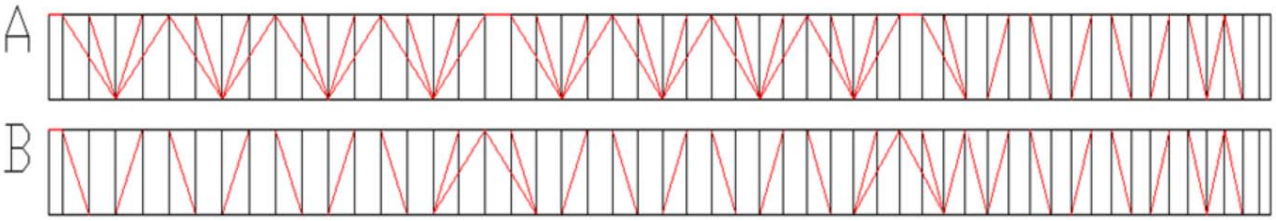
Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape