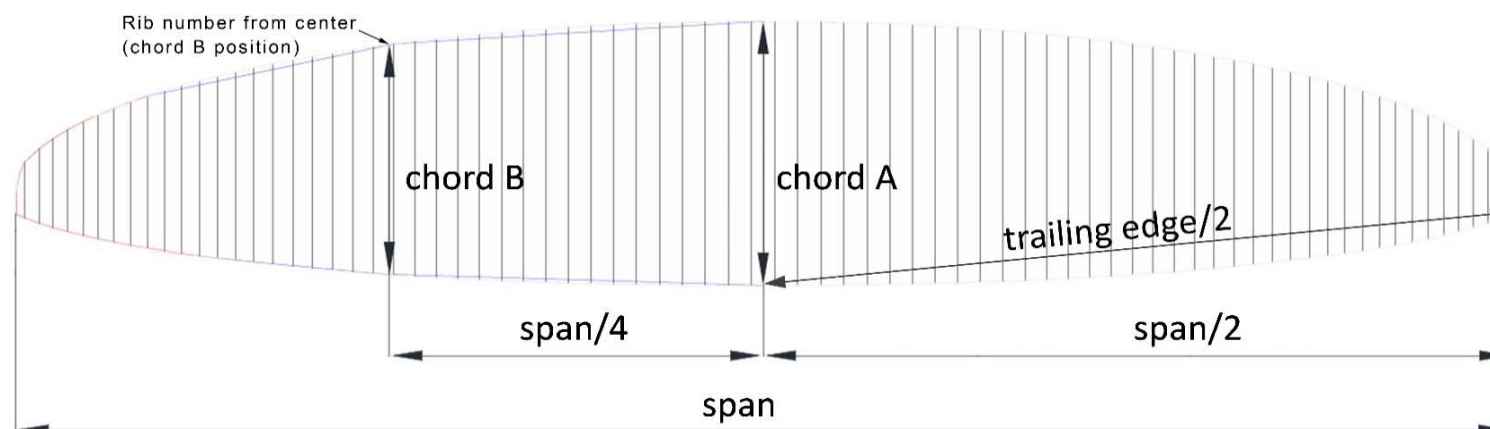


Brand	Gin Gliders Inc.	Size	XL	Test laboratory Cert. #	n/a
Model	Boomerang 13	Serial #	BN02-Q1080314P	Certification date	20.03.2024

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		14190	5	+/-2%	7,53	111	1,14
1/2 Trailing Edge		7206	5	+/-1%			
Chord A		2269	1	+/-1%			
Chord B	25	2106	1	+/-1%			



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

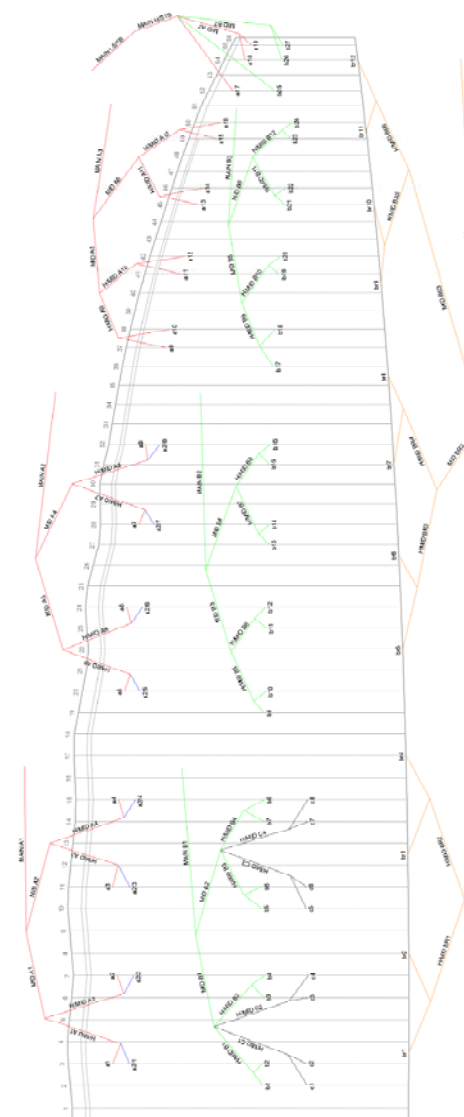
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2285	1	+/-1%
Top of inlet	2	2200	1	+/-1%
Bottom of inlet	2	2166	1	+/-1%
Tab Aa*	3	2000	1	+/-10mm
Tab Ab*	3	1882	1	+/-10mm
Tab B*	2	994	1	+/-10mm
Tab C*	2	696	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1891	1	+/-1%
Top of inlet	32	1816	1	+/-1%
Bottom of inlet	32	1797	1	+/-1%
Tab Aa*	32	1651	1	+/-10mm
Tab Ab*	32	1557	1	+/-10mm
Tab B*	32	825	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	55	528	1	+/-1%
Tab A*	55	448	1	+/-10mm
Tab B*	55	316	1	+/-10mm

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





Measurement Report Template

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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
27								7886	
26								7847	
25								7883	
24								8082	
23								8070	
22								8089	
21								8112	
20								8189	
19		7866						8205	
18		7833						8310	
17		7921						8409	
16		8073						8554	
15		8049						8535	
14		8070						8537	
13		8095						8558	
12		8180						8617	
11		8200						8630	
10		8320						8741	
9		8372						8794	
8		8552			8534			8876	
7		8557			8538			8847	
6		8637			8614			8818	
5		8784			8761			8836	
4		8880			8859			8875	
3		8853			8824			8881	
2		8895			8871			8979	
1		9014			8989			9037	
1		9014			8989			9037	
2		8895			8871			8979	
3		8853			8824			8881	
4		8880			8859			8875	
5		8784			8761			8836	
6		8637			8614			8818	
7		8557			8538			8847	
8		8552			8534			8876	
9		8372						8794	
10		8320						8741	
11		8200						8630	
12		8180						8617	
13		8095						8558	
14		8070						8537	
15		8049						8535	
16		8073						8554	
17		7921						8409	
18		7833						8310	
19		7866						8205	
20								8189	
21								8112	
22								8089	
23								8070	
24								8082	
25								7883	
26								7847	
27								7886	

Number	C		
	Glider	Manual	Delta
4		8959	
3		8963	
2		9056	
1		9113	
1		9113	
2		9056	
3		8963	
4		8959	

Number	C		
	Glider	Manual	Delta
8		8954	
7		8929	
6		8897	
5		8915	
5		8915	
6		8897	
7		8929	
8		8954	

Measurement Report Template

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Riser length

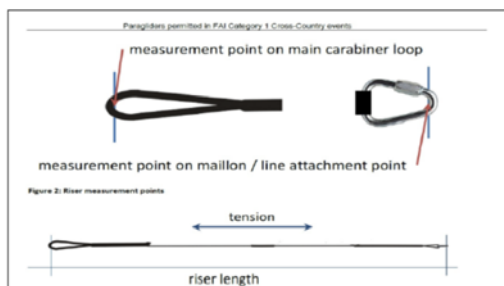
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

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

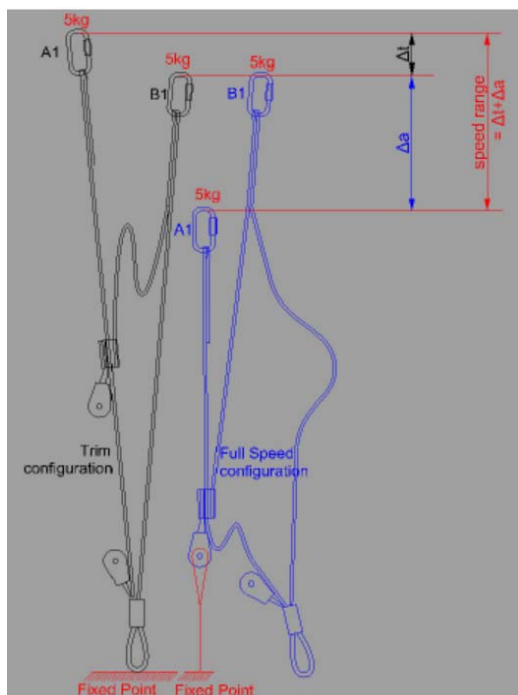
Full speed setting	Δa (=B-A)	B-A'	Total speed range ($\Delta t + \Delta a$)
Manual	142	125	142
Glider			0

High speed setting	Δa (=B-A1)	Total high speed range > 100
CCC	100	100
Glider		0

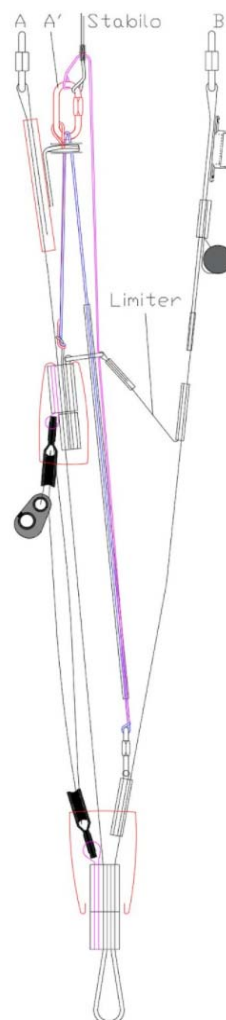
Riser measurment points



Riser measurment lengths



Riser drawing (manufacturer)





Measurement Report Template

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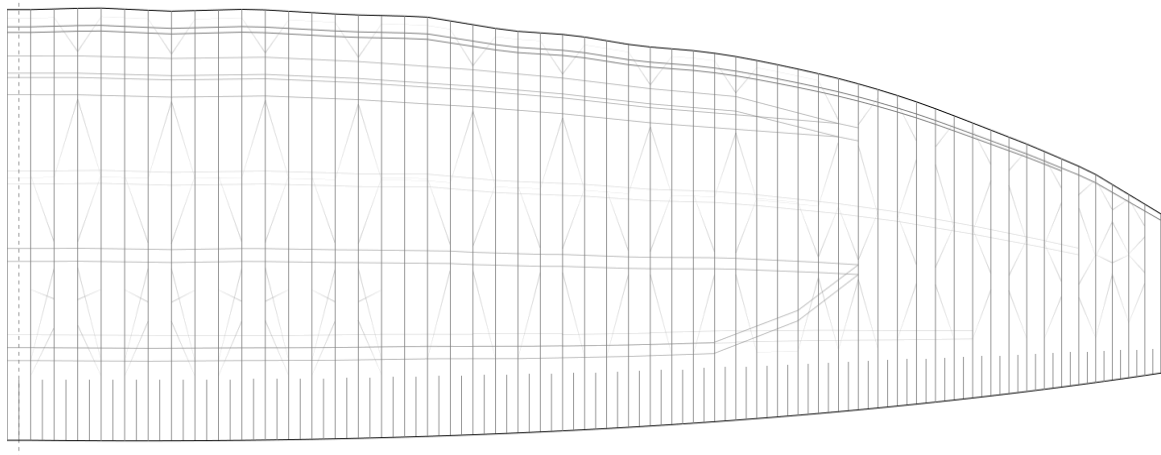
Table of line materials										
Upper										
	A1		A2		B		C		BR	
1	Edlerid	8001-090	Edlerid	8001-090	Edlerid	8001-050	Edlerid	8001-025	Edlerid	8001-025
2	Edlerid	8001-070	Edlerid	8001-050	Edlerid		Edlerid		Edlerid	
3	Edlerid	8001-070	Edlerid		Edlerid		Edlerid		Edlerid	
4	Edlerid	8001-070	Edlerid		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			Edlerid			Edlerid			
16	Edlerid			Edlerid			Edlerid			
17	Edlerid	8000-025		Edlerid	8000-025		Edlerid			
18	Edlerid			Edlerid			Edlerid			
19	Edlerid			Edlerid			Edlerid			
20				Edlerid	8000-025					
21				Edlerid			Edlerid			
22				Edlerid			Edlerid			
23				Edlerid			Edlerid			
24				Edlerid			Edlerid			
25				Edlerid			Edlerid			
26				Edlerid			Edlerid			
27				Edlerid			Edlerid			
H/middle										
	A			B				BR H/Middle		
1	Edlerid	8001-130		Edlerid	8001-050	Edlerid	8001-050	Edlerid	8001-025	
2	Edlerid			Edlerid		Edlerid				
3	Edlerid			Edlerid		Edlerid				
4	Edlerid	Edlerid		Edlerid						
5	Edlerid	8001-090		Edlerid		Edlerid	Edlerid			
6	Edlerid			Edlerid		Edlerid	Edlerid			
7	Edlerid			Edlerid		Edlerid	Edlerid			
8	Edlerid			Edlerid		Edlerid	Edlerid			
9	Edlerid	8001-070		Edlerid	Edlerid	Edlerid				
10	Edlerid			Edlerid	Edlerid	Edlerid				
11	Edlerid			Edlerid	Edlerid	Edlerid				
12	Edlerid			Edlerid	Edlerid	Edlerid				
Middle										
	A			B				BR L/Middle		
1	Edlerid	8001-190		Edlerid	8001-070			Edlerid	8001-050	
2	Edlerid			Edlerid				Edlerid		
3	Edlerid			Edlerid				Edlerid		
4	Edlerid			Edlerid				Edlerid		
5	Edlerid	8001-090		Edlerid			Edlerid			
6	Edlerid	8001-090		Edlerid	Edlerid					
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								

Measurement Report Template

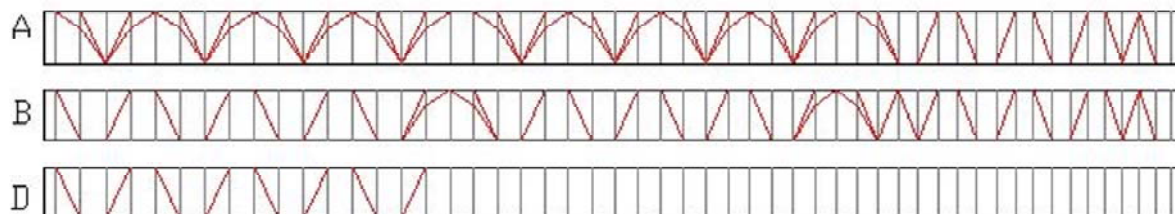
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Drawings and pictures

Diagonals, Hstraps and Mini Ribs (bottom view)



Diagonals (Front view)



Vent (Inlet) shape

