

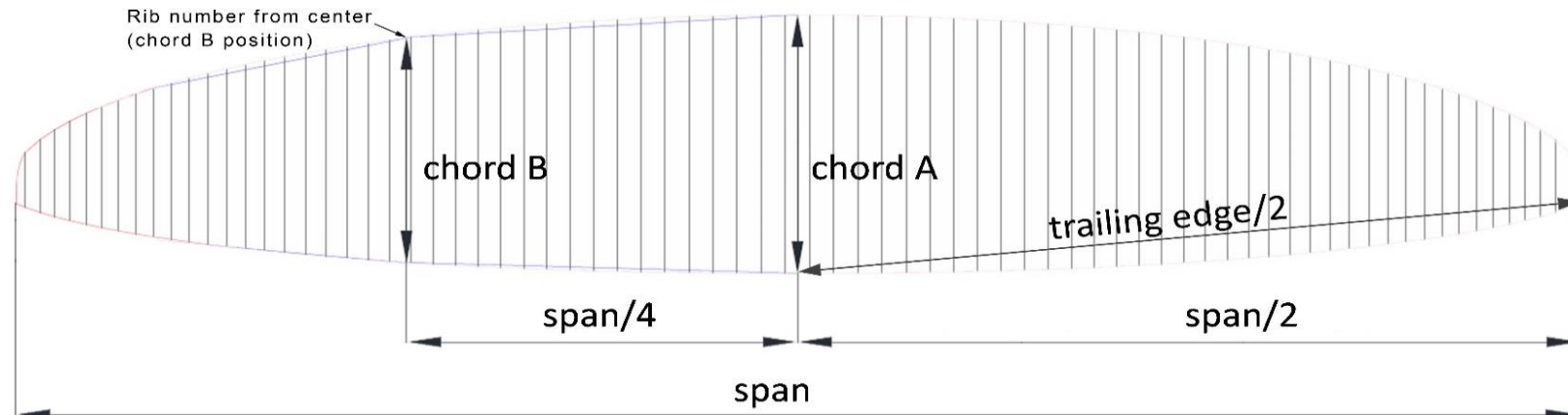
## Measurement Report Template

CIVL CCC 2020 (Version 1.1)

Brand	Gin Gliders Inc.	Size	S	Test laboratory   Cert. #	n/a
Model	Boomerang 13.1	Serial #	BP04-Q1080344P	Certification date	20.06.2025

### 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		12889	5	+/-2%	7.54	101	1.04
1/2 Trailing Edge		6474	5	+/-1%			
Chord A		2077	1	+/-1%			
Chord B	21	1905	1	+/-1%			



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

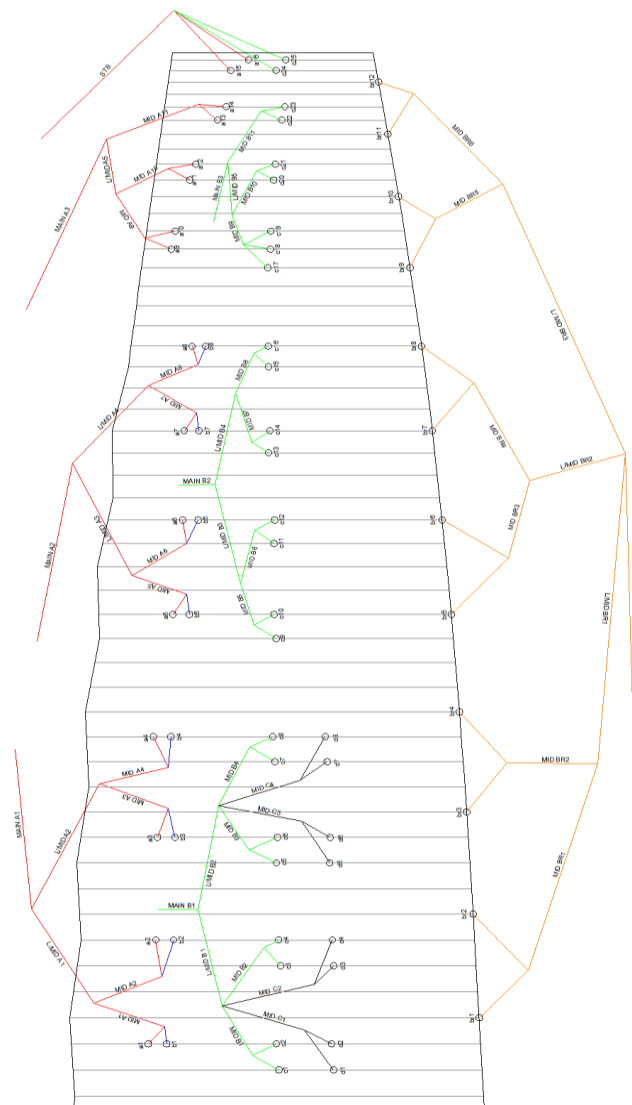
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2105	1	+/-1%
Top of inlet	2	2023	1	+/-1%
Bottom of inlet	2	1993	1	+/-1%
Tab Aa*	3	1855	1	+/-10mm
Tab Ab*	3	1727	1	+/-10mm
Tab B*	2	926	1	+/-10mm
Tab C*	2	610	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1563	1	+/-1%
Top of inlet	32	1503	1	+/-1%
Bottom of inlet	32	1481	1	+/-1%
Tab Aa*	32	1360	1	+/-10mm
Tab Ab*	32	1266	1	+/-10mm
Tab B*	32	688	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	50	355	1	+/-1%
Tab A*	50	301	1	+/-10mm
Tab B*	50	184	1	+/-10mm

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





## Measurement Report Template

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#### ABSOLUTE LINE LENGTH

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												
26												
25												
24												
23												
22												
21												
20												
19												
18												
17												
16										7065	7075	-10
15										7098	7105	-7
14										7236	7247	-11
13										7230	7242	-12
12										7291	7302	-11
11										7295	7307	-12
10	7401	7407	-6									
9	7448	7457	-9									
8	7683	7688	-5	7666	7668	-2	7998	8009	-11			
7	7700	7703	-3	7679	7678	1	7971	7974	-3			
6	7782	7783	-1	7759	7758	1	7945	7954	-9			
5	7924	7933	-9	7903	7903	0	7972	7974	-2			
4	8037	8043	-6	8015	8013	2	8006	8009	-3			
3	8002	8008	-6	7976	7983	-7	8015	8014	1			
2	8048	8053	-5	8027	8028	-1	8100	8109	-9			
1	8173	8178	-5	8147	8148	-1	8172	8174	-2			
1	8173	8178	-5	8143	8148	-5	8169	8174	-5			
2	8059	8053	6	8021	8028	-7	8107	8109	-2			
3	8006	8008	-2	7977	7983	-6	8021	8014	7			
4	8044	8043	1	8008	8013	-5	8014	8009	5			
5	7927	7933	-6	7898	7903	-5	7975	7974	1			
6	7785	7783	2	7756	7758	-2	7953	7954	-1			
7	7699	7703	-4	7676	7678	-2	7972	7974	-2			
8	7691	7688	3	7662	7668	-6	8004	8009	-5			
9	7451	7457	-6				7911	7914	-3			
10	7404	7407	-3				7855	7859	-4			
11	7305	7307	-2				7746	7749	-3			
12	7300	7302	-2				7742	7744	-2			
13	7236	7242	-6				7675	7679	-4			
14	7245	7247	-2				7651	7654	-3			
15	7096	7105	-9				7649	7649	0			
16	7062	7075	-13				7664	7669	-5			
17							7441	7436	5			
18							7399	7391	8			
19							7390	7381	9			
20							7296	7296	0			
21							7301	7291	10			
22							7260	7253	7			
23							7260	7253	7			
24							7088	7096	-8			
25							7087	7096	-9			
26												
27												

Number	C		
	Glider	Manual	Delta
4	8091	8082	9
3	8095	8087	8
2	8187	8177	10
1	8246	8242	4
1	8247	8242	5
2	8187	8177	10
3	8093	8087	6
4	8089	8082	7

Number	C		
	Glider	Manual	Delta
8	8068	8067	1
7	8047	8042	5
6	8029	8022	7
5	8043	8042	1
5	8042	8042	0
6	8025	8022	3
7	8046	8042	4
8	8068	8067	1

## Measurement Report Template

### CIVL CCC 2020 (Version 1.0)

#### Riser length

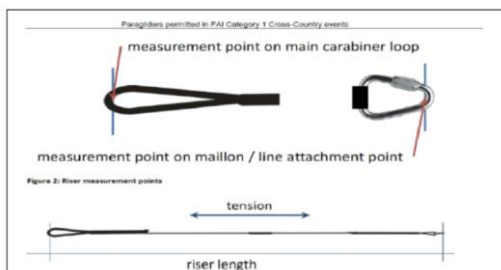
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A	A'	Stabi	B	$\Delta t$ (= A1-B)	Attachment rod $\varnothing$ [mm]
Manual	520	490	490	520	0	10
Glider	519	489	489	521	2	

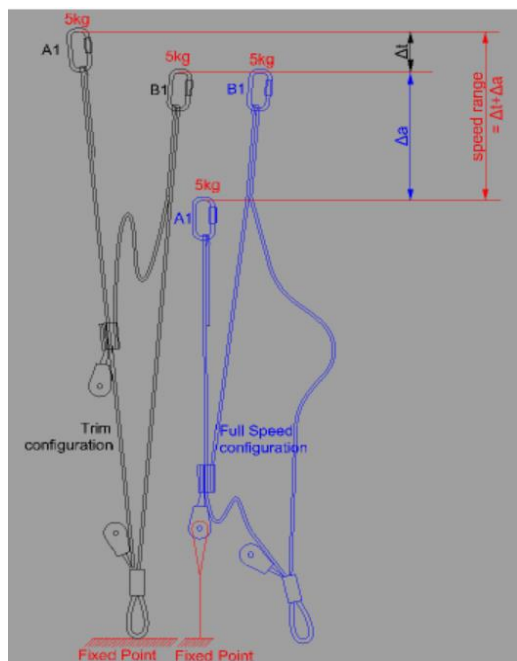
Full speed setting	$\Delta a$ (=B-A)	B-A'	Total speed range ( $\Delta t + \Delta a$ )
Manual	142	100	142
Glider	140	101	142

High speed setting	$\Delta a$ (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	102	104

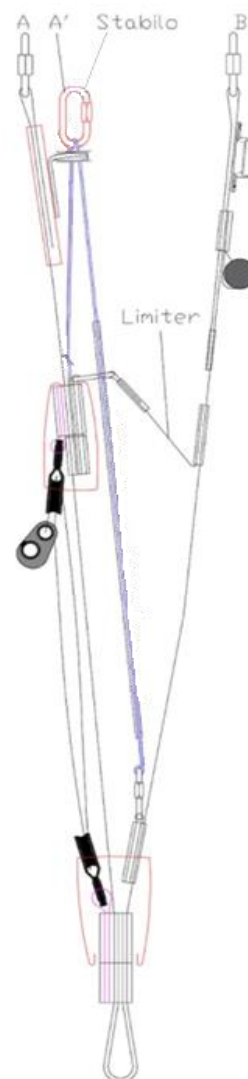
#### Riser measurement points



#### Riser measurement lengths



#### Riser drawing (manufacturer)



## Measurement Report Template

### CIVL CCC 2020 (Version 1.0)

**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	
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					
17					Edlerid	8000-025				
18					Edlerid					
19					Edlerid					
20					Edlerid					
21					Edlerid					
22					Edlerid					
23					Edlerid					
24					Edlerid					
25					Edlerid					

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

Middle										
	A				B				BR L/Middle	
1	Edlerid	8001-190			Edlerid	8001-130			Edlerid	8001-050
2	Edlerid				Edlerid				Edlerid	
3	Edlerid				Edlerid				Edlerid	
4	Edlerid				Edlerid					
5	Edlerid	8001-130			Edlerid	8001-090				

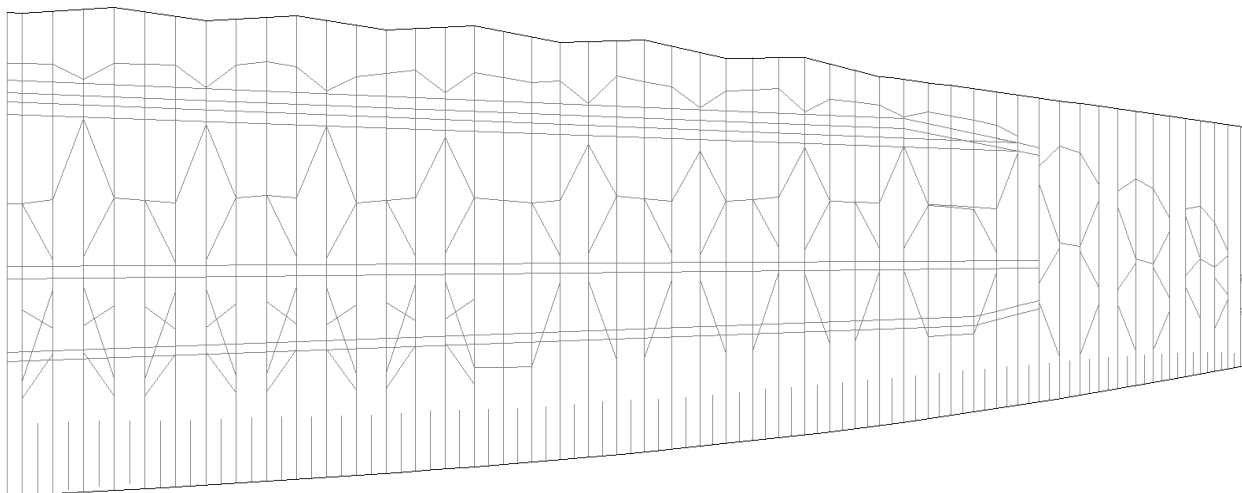
Main										
	A				B				BR H/Main	
1	Edlerid	8001-340			Edlerid	8001-190			Edlerid	8001-090
2	Edlerid				Edlerid	8001-190			BR L/Main	
3	Edlerid	8001-190			Edlerid	8001-090			GIN	TGL220
STB H/Main	Edelrid	8001-050								

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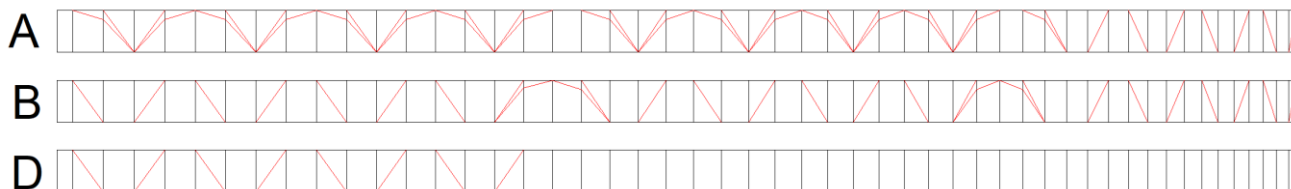
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### Drawings and pictures

Diagonals, Hstraps and Mini Ribs (bottom view)



Diagonals (Front view)



Vent (Inlet) shape

