

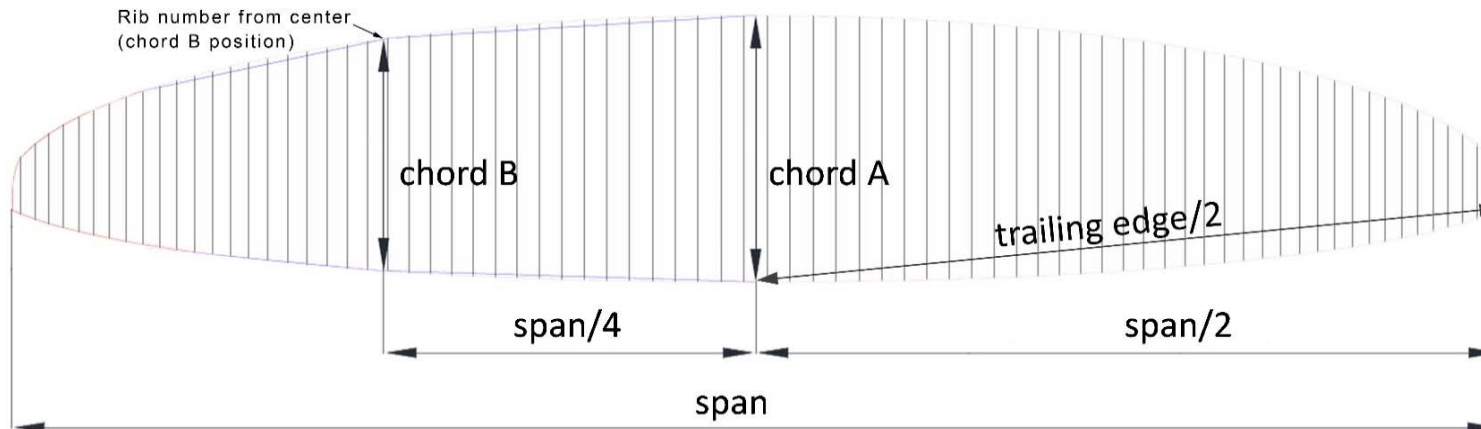
## Measurement Report Template

CIVL CCC 2020 (Version 1.1)

<b>Brand</b>	Gin Gliders Inc.	<b>Size</b>	S	<b>Test laboratory   Cert. #</b>	GS-CCC-024-21
<b>Model</b>	Boomerang 12	<b>Serial #</b>	BK06-Q8200282P	<b>Certification date</b>	06.07.2021

### 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		12811	5	+/-2%	<b>7,47</b>	<b>105</b>	<b>1</b>
1/2 Trailing Edge		6535	5	+/-1%			
Chord A		2098	1	+/-1%			
Chord B	23	1904	1	+/-1%			



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

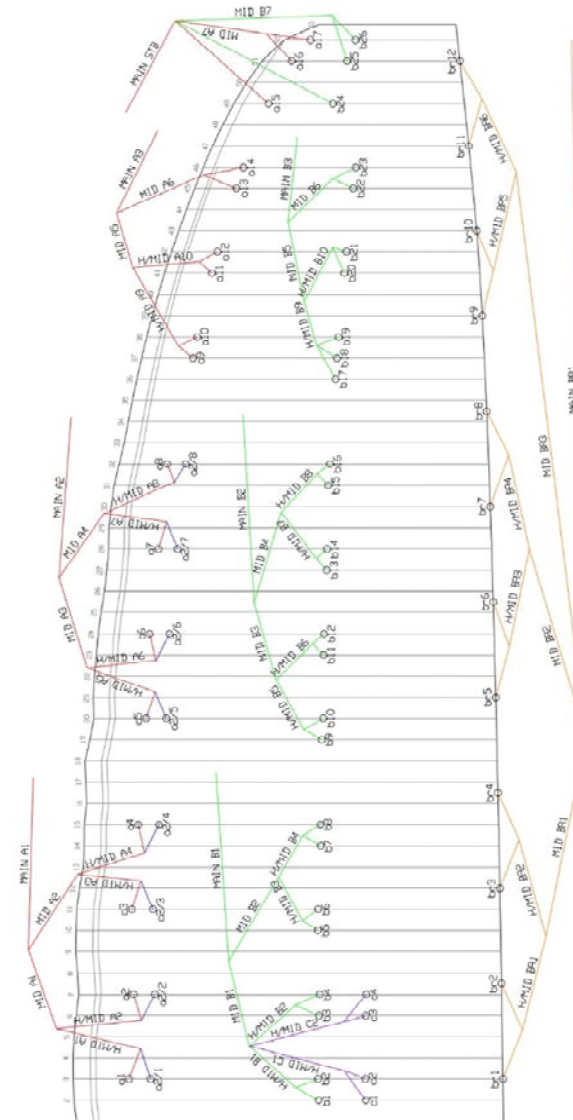
(The tab A & B & C can be on different rib, take care to specify it)

On first lined rib (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	2	2113	1	+/-1%
Top of inlet	2	2026	1	+/-1%
Bottom of inlet	2	1995	1	+/-1%
Tab Aa*	3	1859	1	+/-10mm
Tab Ab*	3	1753	1	+/-10mm
Tab B*	2	918	1	+/-10mm
Tab C*	2	686	1	+/-10mm

On last lined rib of Group 2 (from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	32	1669	1	+/-1%
Top of inlet	32	1607	1	+/-1%
Bottom of inlet	32	1584	1	+/-1%
Tab Aa*	32	1458	1	+/-10mm
Tab Ab*	32	1372	1	+/-10mm
Tab B*	32	728	1	+/-10mm

On last lined rib (stabilo, from center)	Rib n° from center	Distance [mm]	Tension [daN]	Manual tolerances
Chord	52	656	1	+/-1%
Tab A*	52	561	1	+/-10mm
Tab B*	52	383	1	+/-10mm

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





**Measurement Report Template**  
**CIVL CCC 2020 (Version 1.0)**

**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		
	Manual	Glider	Delta	Manual	Glider	Delta	Manual	Glider	Delta
26							7120	7121	1
25							7122	7120	-2
24							7177	7175	-2
23							7364	7366	2
22							7366	7371	5
21							7427	7427	0
20							7439	7436	-3
19							7528	7529	1
18							7559	7555	-4
17	7114	7110	-4				7615	7611	-4
16	7125	7126	1				7766	7769	3
15	7200	7204	4				7747	7751	4
14	7330	7334	4				7740	7738	-2
13	7335	7333	-2				7758	7760	2
12	7403	7399	-4				7813	7811	-2
11	7417	7413	-4				7823	7819	-4
10	7524	7524	0				7925	7924	-1
9	7572	7569	-3				7978	7974	-4
8	7781	7779	-2	7775	7774	-1	8047	8048	1
7	7783	7785	2	7771	7769	-2	8019	8021	2
6	7851	7854	3	7841	7839	-2	7989	7995	6
5	7990	7992	2	7976	7972	-4	8001	8005	4
4	8081	8080	-1	8067	8064	-3	8034	8037	3
3	8040	8036	-4	8027	8032	5	8044	8042	-2
2	8081	8078	-3	8067	8068	1	8135	8142	7
1	8199	8200	1	8183	8186	3	8191	8189	-2
1	8199	8201	2	8183	8185	2	8191	8190	-1
2	8081	8080	-1	8067	8066	-1	8135	8140	5
3	8040	8043	3	8027	8026	-1	8044	8039	-5
4	8081	8085	4	8067	8062	-5	8034	8032	-2
5	7990	7991	1	7976	7970	-6	8001	8001	0
6	7851	7851	0	7841	7835	-6	7989	7994	5
7	7783	7782	-1	7771	7766	-5	8019	8020	1
8	7781	7779	-2	7775	7770	-5	8047	8052	5
9	7572	7567	-5				7978	7978	0
10	7524	7526	2				7925	7926	1
11	7417	7414	-3				7823	7823	0
12	7403	7403	0				7813	7816	3
13	7335	7340	5				7758	7759	1
14	7330	7333	3				7740	7736	-4
15	7200	7198	-2				7747	7750	3
16	7125	7126	1				7766	7772	6
17	7114	7105	-9				7615	7615	0
18							7559	7561	2
19							7528	7528	0
20							7439	7435	-4
21							7427	7429	2
22							7366	7373	7
23							7364	7362	-2
24							7177	7177	0
25							7122	7116	-6
26							7120	7118	-2

Number	C		
	Manual	Glider	Delta
4	8109	8110	1
3	8125	8122	-3
2	8209	8210	1
1	8264	8264	0
1	8264	8264	0
2	8209	8211	2
3	8125	8121	-4
4	8109	8109	0

## Measurement Report Template CIVL CCC 2020 (Version 1.0)

### Riser length

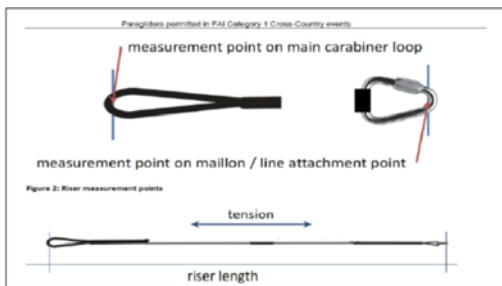
From bottom riser to top maillon on each branche in mm with 5daN (Manual tolerances +/-5mm)

Trimm speed setting	A1	A3	Stabi	B	$\Delta t$ (= A1-B)	Attachment rod $\varnothing$ [mm]
Manual	520	487		520	0	10
Glider	521	490		522	1	

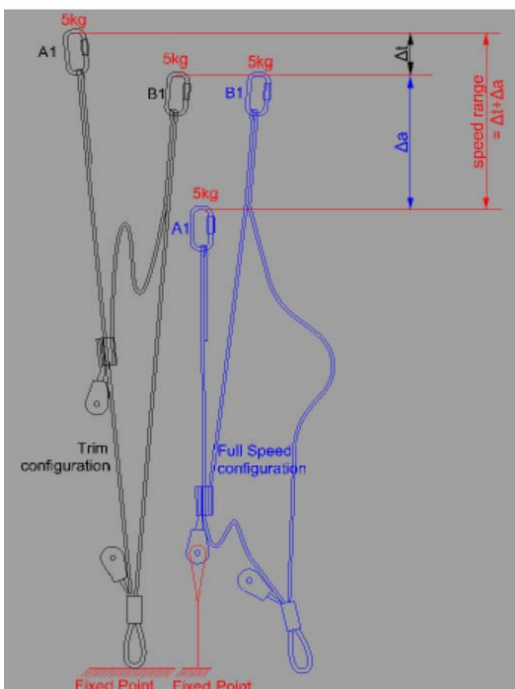
Full speed setting	$\Delta a$ (=B-A1)	B-A3	Total speed range ( $\Delta t + \Delta a$ )
Manual	140	125	140
Glider	142	128	143

High speed setting	$\Delta a$ (=B-A1)	Total high speed range > 100
CCC	100	100
Glider	103	104

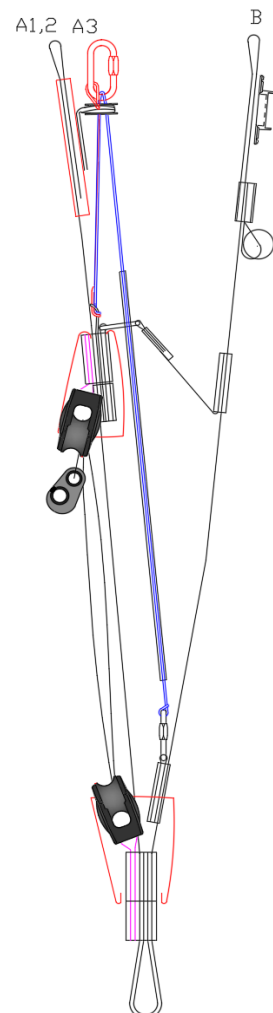
#### Riser measurement points



#### Riser measurement lengths



#### Riser drawing (manufacturer)



# Measurement Report Template

CIVL CCC 2020 (Version 1.0)

**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		Edlerid	Edlerid	Edlerid	
10	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
11	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
12	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
13	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
14	Edlerid	Edlerid		Edlerid	Edlerid		Edlerid			
15	Edlerid	8000-025		Edlerid	Edlerid		Edlerid	Edlerid		
16	Edlerid			Edlerid	Edlerid		Edlerid	Edlerid		
17	Edlerid			Edlerid	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		Edlerid	
6	Edlerid			Edlerid		Edlerid			
7	Edlerid			Edlerid		Edlerid			
8	Edlerid	8001-070		Edlerid		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	8001-070			
5	Edlerid			8001-090	Edlerid				
6	Edlerid			8001-050	Edlerid		8001-050		
7	Edlerid				Edlerid				

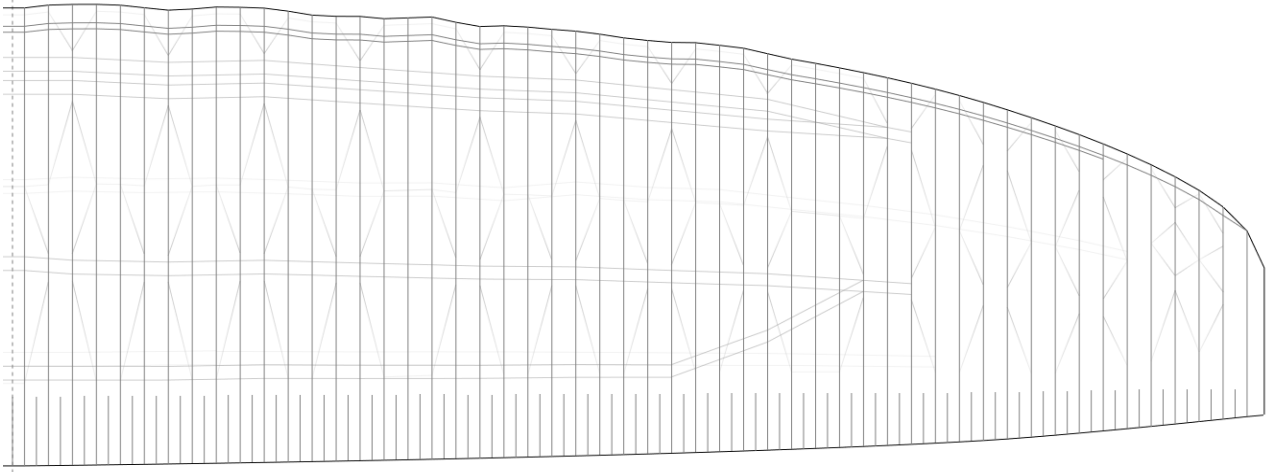
Main									
	A		B		BR H/Main				
1	Edlerid	8001-340		Edlerid	8001-190	Edlerid	8001-090		
2	Edlerid			Edlerid	8001-190	<b>BR L/Main</b>			
3	Edlerid			8001-190	Edlerid	8001-090	GIN	TGL220	
STB Main	Edlerid	8001-070							

# Measurement Report Template

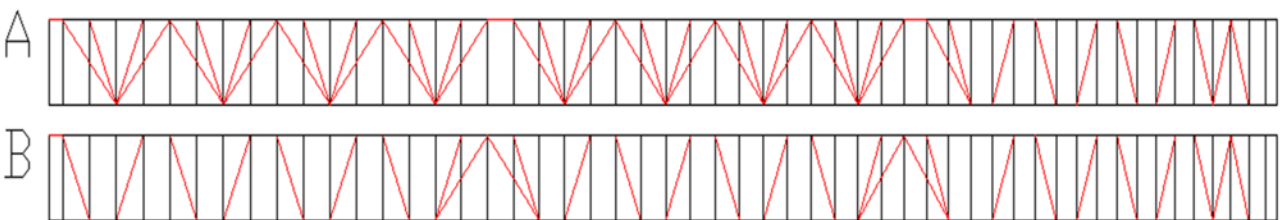
CIVL CCC 2020 (Version 1.0)

## Drawings and pictures

Diagonals, Hstraps and Mini Ribs (top view)



Diagonals (Front view)



Vent (Inlet) shape

