

PG MEASUREMENT REPORT

MEASUREMENT OF FLIGHT TEST SAMPLE

TEST REPORT PG4

Report number : **PG_1500.2019**
 Manufacturer : **Gradient**

Sample name: **BiGolden 4 42 light**
 S/N: **G50421811287L**

Execution date: **29.05.2019**
 Responsible: **Claude Thurnheer**

Execution place: **Villeneuve**
 Linked: **ISO 71.8.1**

TOTAL LINE LENGTH WITH RISER [mm]																Main brake line diff color than A,B,C main line?			Yes				
	A			B			C			D			E			STAB			BRAKES			+strap	
	Manual	Sample	Diff	Manual	Sample	Diff	Manual	Sample	Diff	Manual	Sample	Diff	Manual	Sample	Diff	Manual	Sample	Diff	Manual	Sample	Diff		Sample
Center	1	9233	9233	0	9186	9184	-2	9256	9248	-8	9375	9370	-5	9459	9452	-7	8095	8088	-7	9791	9817	26	
	2	9170	9170	0	9124	9120	-4	9197	9188	-9	9315	9310	-5	9416	9407	-9	8110	8101	-9	9610	9637	27	
	3	9147	9146	-1	9095	9093	-2	9173	9165	-8	9287	9280	-7	9385	9380	-5	8164	8156	-8	9448	9483	35	
	4	9203	9202	-1	9153	9149	-4	9226	9221	-5	9339	9330	-9	9424	9421	-3	8223	8213	-10	9389	9418	29	
	5	9149	9156	7	9094	9091	-3	9168	9160	-8	9268	9264	-4	9347	9344	-3	8259	8249	-10	9251	9275	24	
	6	9080	9084	4	9023	9016	-7	9100	9094	-6	9198	9196	-2	9285	9281	-4				9122	9147	25	
	7	9039	9043	4	8986	8984	-2	9068	9063	-5	9155	9148	-7	9236	9234	-2				9060	9086	26	
	8	9083	9088	5	9034	9029	-5	9112	9108	-4	9196	9191	-5	9252	9245	-7				9059	9085	26	
	9	9070	9076	6	9023	9020	-3	9098	9092	-6	9169	9168	-1	9232	9230	-2				8972	9001	29	
	10	8970	8974	4	8930	8925	-5	9007	9003	-4	9072	9071	-1	9141	9136	-5				8862	8887	25	
	11	8808	8816	8	8783	8781	-2	8847	8843	-4	8900	8900	0	8964	8963	-1				8831	8861	30	
	12	8795	8798	3	8772	8768	-4	8829	8823	-6	8878	8872	-6	8930	8925	-5				8693	8723	30	
Wing tip	13	8651	8649	-2	8632	8627	-5	8677	8673	-4	8712	8711	-1							8671	8697	26	
	14	8615	8613	-2	8596	8589	-7	8633	8628	-5	8660	8660	0										
	15	8204	8194	-10	8159	8150	-9	8203	8193	-10	8293	8283	-10										
	16																						
	17																						
	18																						

Tolerance line | [mm] **10**

MEASUREMENT TOTAL RISER LENGTH [mm] Inner edge												
Total length risers (with carabiners)	Risers	trim	accel	Total length risers (without carabiners)	Risers	trim	accel	Number of risers : 4	Stabilo line attached to Risers : B			
	A	381	381		A	349	349			Tolerance [mm]: 5		
	A'	379	379		A'	349	349					
	B	382	401		B	350	369				Carabiner I [mm] 32 30	
	C	384	422		C	352	390					Tolerance [mm]: 2
	D	386	462		D	354	430					
	Acc.	n/a	*[mm]		Acc.	n/a	*[mm]					
Trimmer	-76	[mm]	Trimmer	-76	[mm]							
* Travel range (distance btw A to rear riser)				Number of cell: 59			Weight of glider [kg] 7.02					

MEASUREMENT DATA									
Plausibility check before measurements [mm]: 500 500 10000 10001				Pressure 968.1 [hPa]			Another trim dispositive: No		
Remark: N/A				Humidity 58 [%]			If yes (description):		
				Temperature 22.9 [°C]					

MEASUREMENT DIRECTIVE

Total length measured from the underside of the wing to the inner edge of the risers base with a tension of 50 [N].

Laser distance meter [Leica DISTO D3a BT 911110352] **Validity** 07.04.2018 **Uncertainty of measurement:** 3.00 [mm]

AT LMS [Line measurement system] **Validity** 07.04.2018 **Measured values do not include the uncertainty / The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2. The value of the measurand lies within the assigned range of values with a probability of 95%.**