

PG MEASUREMENT REPORT

MEASUREMENT OF FLIGHT TEST SAMPLE

TEST REPORT PG4

Report number : **PG_1499.2019**
 Manufacturer : **Gradient**

Sample name: **BiGolden 4 37 light**
 S/N: **G50371812305L**

Execution date: **03.05.2019**
 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	8720	8721	1	8679	8678	-1	8739	8734	-5	8851	8840	-11	8931	8919	-12	7649	7646	-3	9248	9246	-2	
	2	8664	8664	0	8617	8618	1	8683	8676	-7	8796	8787	-9	8890	8878	-12	7665	7661	-4	9078	9075	-3	
	3	8643	8647	4	8590	8590	0	8663	8662	-1	8770	8764	-6	8857	8847	-10	7718	7712	-6	8925	8922	-3	
	4	8695	8695	0	8644	8643	-1	8713	8710	-3	8817	8805	-12	8897	8887	-10	7774	7767	-7	8865	8864	-1	
	5	8644	8648	4	8595	8597	2	8664	8665	1	8754	8747	-7	8829	8824	-5	7805	7802	-3	8736	8736	0	
	6	8580	8584	4	8527	8529	2	8601	8602	1	8690	8681	-9	8771	8764	-7				8617	8614	-3	
	7	8539	8542	3	8489	8492	3	8571	8571	0	8650	8640	-10	8727	8720	-7				8555	8553	-2	
	8	8580	8584	4	8538	8537	-1	8613	8615	2	8689	8681	-8	8742	8735	-7				8556	8554	-2	
	9	8572	8575	3	8536	8537	1	8595	8592	-3	8664	8654	-10	8725	8717	-8				8474	8474	0	
	10	8479	8483	4	8446	8447	1	8510	8511	1	8573	8564	-9	8638	8628	-10				8364	8362	-2	
	11	8326	8328	2	8303	8307	4	8360	8359	-1	8416	8408	-8	8470	8462	-8				8341	8340	-1	
	12	8311	8314	3	8292	8295	3	8345	8344	-1	8391	8384	-7	8440	8430	-10				8208	8213	5	
	13	8182	8182	0	8163	8160	-3	8203	8199	-4	8234	8224	-10							8191	8196	5	
	Wing tip	14	8145	8147	2	8125	8120	-5	8158	8155	-3	8185	8176	-9									
15		7750	7747	-3	7713	7708	-5	7751	7744	-7	7834	7828	-6										
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'	380	380		A'	350	350				
	B	384	403		B	352	371				Speed system configuration max travel in flight: TRIM
	C	385	422		C	353	390				
	D	388	461		D	356	429				
	Acc.	n/a	*[mm]		Acc.	n/a	*[mm]				
Trimmer	-73	[mm]	Trimmer	-73	[mm]	Tolerance [mm]: 2					
							Number of cell: 59				
								Weight of glider [kg] 5.70			

* Travel range (distance btw A to rear riser)



MEASUREMENT DATA									
Plausibility check before measurements [mm]: 500 500 10000 10001				Pressure 977.1 [hPa]			Another trim dispositive: No		
Remark: N/A				Humidity 43 [%]			If yes (description):		
				Temperature 24.8 [°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%.					