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paragliding by air turquoise

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## **Assessment of conformity**

EN 926-1 and 926-2

PARAGLIDING PWC SUPERFINAL BRAZIL 2013

FEVRIER 2014

### **Performed by:**

Air Turquoise SA  
Route du Pré-au-Compte 9  
1844 Villeneuve  
Switzerland

### **Required by:**

Paragliding World Cup Association  
364 route d'Annecy  
74210 Marlens  
France

### **Concern:**

Verification of conformity with the EN 926-2:2005 norm, for paraglider **Niviuk Icepeak Pro Model 24 serial number J270034**.

### **Facts:**

<sup>1.1</sup> Niviuk Icepeak 7 Pro Model 24, serial number PATTERN V2, underwent a complete certification procedure in accordance with the EN 926-1 and 926-2 norms.

<sup>1.2</sup> On the December 28<sup>th</sup> 2013, the procedure was finalized, and the glider was therefore homologated EN D.

<sup>2.1</sup> During the 2013 World Cup Superfinal, the PWCA proceeded to test a sample of the gliders flown, as is permitted by the 2013 PWCA Rules, § 7 of the chapter concerning pilots' equipment.

<sup>2.2</sup> At that point, doubts were emitted concerning the compliance of Niviuk Icepeak Pro Model 24 serial number J270034 with PWCA rules.

<sup>3</sup> The PWCA therefore requested an expertise on said glider, in order to determine if it is in fact to be considered homologated, according to the applicable norms, at the time of the competition.

<sup>4</sup> Measurements were done on February 13<sup>th</sup> 2014 in Air Turquoise's offices, under supervision of many witnesses of all concerned parties. Results are the following:

- Lines of the A3 group were in average 20mm shorter than those of the homologated specimen
- Lines of the B3 group were in average 15mm shorter than those of the homologated specimen
- Lines of the "stabilo" group were in average 20mm shorter than those of the homologated specimen
- The length differential of the A1 riser between its trim speed and maximum speed configurations was 30mm longer than that of the homologated specimen, even though the distances between accelerator pulleys are analogous
- After a rigorous check of the canopy, no noticeable difference was observed.

### **Judgments:**

<sup>1.1</sup> Air Turquoise is an independent homologation laboratory, authorized to test according to EN and LTF norms, and well respected within the paragliding world.

<sup>1.2</sup> *A contrario*, in order to ensure that the spirit of these norms and therefore the public's safety are respected, Air Turquoise is competent to verify *a posteriori* if the gliders sold to the public are conform to the sample tested, homologated and archived by us.

<sup>2.1</sup> According to § 5.3.1 of the EN 926-2 norm, the production gliders must be in all points conforming to the tested specimen.

<sup>2.2</sup> This means that a competent organ may verify the conformity of whichever parameter of the serial glider he sees fit, in order to compare it with that of the homologated specimen.

<sup>2.3</sup> The norm defines tolerances for some of these parameters (EN 926 -2:2005, § 7 lit. c n. 14 et 15):  $\pm 10\text{mm}$  for lines and  $\pm 5\text{mm}$  for risers.

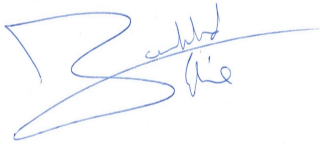
**Conclusions:**

<sup>1.1</sup> Certain measurements exceed the acceptable tolerances, as defined in the EN 925-2:2005 norm (§7 lit. c par. 14 and 15).

<sup>1.2</sup> We consider these discrepancies big enough, that the glider Niviuk Icepeak Pro Model 24 serial number J270034, and all Niviuk Icepeak 7 Pro Model 24 gliders presenting analogous configurations, are clearly and unequivocally not conform to the specimen homologated and archived by Air Turquoise.

For Air Turquoise SA :

**Elie Bourdilloud**  
EN/LTF Test pilot  
Flight tests mini weight



**Alain Zoller**  
EN/LTF Test pilot  
Flight tests maxi weight



**Gilles Berruex**  
EN/LTF Test pilot  
Technical





Glider: **NIVIUK IP 7 Pro 24**

S/N: **J370034**

Done by: **GB**

date: **13.02.2014**

## Line measurement of PWC Competition glider

	Archive Glider <b>A</b>			Archive Glider <b>A2</b>			Archive Glider <b>B</b>			Archive Glider <b>B2</b>			Archive Glider <b>Stabilo</b>			
			<b>Diff</b>			<b>Diff</b>			<b>Diff</b>			<b>Diff</b>			<b>Diff</b>	
<b>Center</b>	1	8071	8065	-6	8037	8031	-6	8017	8010	-7	8113	8108	-5	7244	7225	-19
	2	7950	7940	-10	7909	7902	-7	7874	7868	-6	7984	7985	1	7324	7305	-19
	3	7904	7901	-3	7870	7867	-3	7846	7848	2	7986	7985	-1			
	4	7949	7949	0	7919	7918	-1	7942	7939	-3	8074	8072	-2			
	5	7840	7830	-10	7819	7803	-16	7799	7788	-11	7933	7926	-7			
	6	7724	7717	-7	7702	7692	-10	7681	7671	-10	7816	7809	-7			
	7	7683	7675	-8	7660	7652	-8	7643	7635	-8	7773	7770	-3			
	8	7713	7706	-7	7694	7688	-6	7722	7723	1	7825	7823	-2			
	9	7511	7487	-24				7494	7476	-18						
	10	7420	7401	-19				7421	7402	-19						
	11	7349	7329	-20				7380	7373	-7						
	12	7326	7312	-14				7408	7403	-5						
<b>Wing tip</b>	13	7265	7249	-16				7332	7316	-16						

A

	Archive		Glider	
<b>Risers</b>	trim	accel	trim	accel
A	498	348	500	316
A'	498	423	498	403
B	500	460	494	448
B'	498	498	497	499

accel	<b>15.0</b>	cm	<b>15.0</b>	cm
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Archive Glider NK IP 7 Pro / SN pattern v2  
PWC Glider NK IP 7 Pro / SN J370034

**Mesure of half wingspan with 5 kg of tension**

	Archive Glider	Diff	
Front edge	6720	6742	22
Trailing edge	6458	6496	38

Pressure	<b>1030</b>	<b>hPa</b>
Humidity	<b>31</b>	<b>%</b>
Temperature	<b>22</b>	<b>°C</b>

Number of cell:	<b>80</b>
Tolerance	<b>10</b>
Weight of glider / kg	<b>5.5</b>