

TEST REPORT		FUKUOKA Seiko	Date	16-avr-08		
MANUFACTORY	NERVURES	MODEL	FAIAL Bivouac	SIZE	XS	
Procédure	Min weight	Weight in flight	55 kg	in test 58 kg		
HARNAIS	SUP AIR Altiplume	TYPE	abs	VENTRAL	42 cm	
			LABORATOIRE AEROTEST TEULIER Vincent +33680121809 <a href="mailto:teulier.v.s@wanadoo.fr">teulier.v.s@wanadoo.fr</a>			
			<b>Measurements and possible ranges</b>			
1 Rising behaviour		Smooth, easy and constant rising			A	
2 Special take off technique		No			A	
<b>Measurements and possible ranges in the landing test</b>						
Special landing technique required		No			A	
<b>Measurements and possible ranges in the speeds in straight flight test</b>						
Measurement and ranges						
1 Trim speed more than 30 km/h		Yes			A	
2 Speed range using the controls larger than 10 km/h		Yes			A	
3 Minimum speed		Less than 25 km/h			A	
<b>Classification of a paraglider's behaviour in the control movement test</b>						
Max weight in flight		up to 80 kg		increasing greater than 55cm		A
<b>Classification of a paraglider's behaviour in the pitch stability exiting accelerated flight test</b>						
1 Dive forward angle on exit		Dive forward less than 30°			A	
2 Collapse occurs		No			A	
<b>Classification of a paraglider's behaviour in the pitch stability operating controls during accelerated flight test</b>						
Collapse occurs		No			A	
<b>Classification of a paraglider's behaviour in the roll stability and damping test</b>						
Oscillations		Reducing			A	
<b>Classification of a paraglider's behaviour in the stability in gentle spirals test</b>						
Tendency to return to straight flight		Spontaneous exit			A	
<b>Classification of a paraglider's behaviour in the behaviour in a steeply banked turn test</b>						
Sink rate after two turns		up to 12 m/s			A	
<b>Classification of a paraglider's behaviour in the symmetric front collapse test</b>						
Entry		Rocking back less than 45°			A	
Recovery		Spontaneous in less than 3 s			A	
Dive forward angle on exit		Dive forward 0° to 30° Keeping course			A	
Cascade occurs		No			A	

**Classification of a paraglider's behaviour in the symmetric front collapse test accelerated**

Entry	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30° Keeping course	A
Cascade occurs	No	A

**Classification of a paraglider's behaviour in the exiting deep stall (parachutal stall) test**

1 Deep stall achieved	Yes	A
2 Recovery	Spontaneous in less than 3 s	A
3 Dive forward angle on exit	Dive forward 0° to 30°	A
4 Change of course	Changing course less than 45°	A
5 Cascade occurs	No	A

**Classification of a paraglider's behaviour in the high angle of attack recovery test**

1 Recovery	Spontaneous in less than 3s	A
2 Cascade occurs	No	A

**Classification of a paraglider's behaviour in the full stall test**

1 Dive forward angle on exit	Dive forward 0 et 30°	A
2 Collapse	No collapse	A
3 Cascade occurs (other than collapses)	No	A
4 Rocking back	Less than 45°	A
5 Line tension	Most lines tight	A

**Classification of a paraglider's behaviour in the asymmetric collapse test to 50%**

Change of course until re-inflation	Less then 90° Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A
Total change of course	Less than 360°	A
Collapse on the opposite side occurs	No	A
Twist occurs	No	A
Cascade occurs	No	A

**Classification of a paraglider's behaviour in the asymmetric collapse test to 50% full speed**

Change of course until re-inflation	90° to 180° Dive or roll angle 0° to 15°	A
Re-inflation behaviour	Spontaneous re-inflation	A
Total change of course	Less than 360°	A
Collapse on the opposite side occurs	No	A
Twist occurs	No	A
Cascade occurs	No	A

**Classification of a paraglider's behaviour in the asymmetric collapse test 75%**

Change of course until re-inflation	90° to 180° Dive or roll angle 15° to 45°	B
Re-inflation behaviour	Spontaneous re-inflation	A
Total change of course	Less than 360°	A
Collapse on the opposite side occurs	No	A
Twist occurs	No	A
Cascade occurs	No	A

**Classification of a paraglider's behaviour in the asymmetric collapse test 75% full speed**

Change of course until re-inflation	90° to 180° Dive or roll angle 45° to 60°	C
Re-inflation behaviour	Spontaneous re-inflation	A
Total change of course	Less than 360°	A
Collapse on the opposite side occurs	No	A
Twist occurs	No	A
Cascade occurs	No	A

**Measurements and possible ranges in the directional control with a maintained asymmetric collapse test**

1 Able to keep course	Yes	A
2 180° turn away from the collapsed side possible in 10 s	Yes	A
3 Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A

**Measurements and possible ranges in the trim speed spin tendency test**

Spin occurs	No	A
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**Measurements and possible ranges in the low speed spin tendency test**

Spin occurs	No	A
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**Classification of a paraglider's behaviour in the recovery from a developed spin test**

1 Spin rotation angle after release	Stops spinning in less than 90°	A
2 Cascade occurs		

	No	A
<b>Classification of a paraglider's behaviour in the B-line stall test</b>		
1 Change of course before release	Changing course less than 45°	A
2 Behaviour before release	Remains stable with straight span	A
3 Recovery	Spontaneous in less than 3 s	A
4 Dive forward angle on exit	Dive forward 0° to 30°	A
5 Cascade occurs	No	A
<b>Classification of a paraglider's behaviour in the big ears test</b>		
1 Entry procedure	Dedicated controls	A
2 Behaviour during big ears	Stable flight	A
3 Recovery	Spontaneous in less than 3 s	A
4 Dive forward angle on exit	Dive forward 0° to 30°	A
<b>Classification of a paraglider's behaviour in the big ears in accelerated flight test</b>		
1 Entry procedure	Dedicated controls	A
2 Behaviour during big ears	Stable flight	A
3 Recovery	Spontaneous in 3 s to 5 s	A
4 Dive forward angle on exit	Dive forward 0° to 30°	A
5 Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A
<b>Classification of a paraglider's behaviour in the behaviour exiting a steep spiral test</b>		
1 Tendency to return to straight flight	Spontaneous exit	A
2 Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A
<b>Classification of a paraglider's behaviour in the alternative means of directional control test</b>		
1 180° turn achievable in 20 s	Yes	A
2 Stall or spin occurs	No	A