


TEST REPORT		WALLER Christophe	Date	16-avr-08	
MANUFACT	NERVURES	MODEL	FAIAL	SIZE	S
Procédure	Max weight	Weight in flight	90 kg		
HARNAIS	SUP AIR RADICALE	TYPE	abs	VENTRAL	46 cm
			LABORATOIRE AEROTEST TEULIER Vincent +33680121809 teulier.v.s@wanadoo.fr		
			Measurements and possible ranges		
1	Rising behaviour		Smooth, easy and constant rising	A	
2	Special take off technique		No	A	
Measurements and possible ranges in the landing test					
	Special landing technique required		No	A	
Measurements and possible ranges in the speeds in straight flight test					
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	
Classification of a paraglider's behaviour in the control movement test					
	Max weight in flight	80 to 100 kg		increasing greater than 60 cm	A
Classification of a paraglider's behaviour in the pitch stability exiting accelerated flight test					
1	Dive forward angle on exit		Dive forward less than 30°	A	
2	Collapse occurs		No	A	
Classification of a paraglider's behaviour in the pitch stability operating controls during accelerated flight test					
	Collapse occurs		No	A	
Classification of a paraglider's behaviour in the roll stability and damping test					
	Oscillations		Reducing	A	
Classification of a paraglider's behaviour in the stability in gentle spirals test					
	Tendency to return to straight flight		Spontaneous exit	A	
Classification of a paraglider's behaviour in the behaviour in a steeply banked turn test					
	Sink rate after two turns		12 to 14 m/s	A	
Classification of a paraglider's behaviour in the symmetric front collapse test					
	Entry		Rocking back less than 45°	A	
	Recovery				

Dive forward angle on exit	Spontaneous in less than 3 s	A
Cascade occurs	Dive forward 0° to 30° Keeping course	A
	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	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 30 et 60°	B
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 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

	No	A
Classification of a paraglider's behaviour in the asymmetric collapse test to 50% full speed		
Change of course until re-inflation	Less than 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 75%		
Change of course until re-inflation	Less than 90° 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
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 60° to 90°	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		
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

Measurements and possible ranges in the low speed spin tendency test

Spin occurs

No

A

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

Classification of a paraglider's behaviour in the B-line stall test

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

Classification of a paraglider's behaviour in the big ears test

1 Entry procedure

Standard technique

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

Classification of a paraglider's behaviour in the big ears in accelerated flight test

1 Entry procedure

Standard technique

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

5 Behaviour immediately after releasing the accelerator while maintaining big ears

Stable flight

A

Classification of a paraglider's behaviour in the behaviour exiting a steep spiral test

1 Tendency to return to straight flight

Spontaneous exit

A

2 Turn angle to recover normal flight

Less than 720°, spontaneous recovery

A

Classification of a paraglider's behaviour in the alternative means of directional control test

1 180° turn achievable in 20 s

Yes

A

2 Stall or spin occurs

No

A