


TEST REPORT		WALLER Christophe	Date	16-avr-08	
MANUFACT	NERVURES	MODEL	FAIAL	SIZE	L
Procédure	Max weight	Weight in flight	120 kg		
HARNAIS	SUP AIR EVO XC2	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 greater than 100 kg
increasing greater than 65 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
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	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

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 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% 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

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
Classification of a paraglider's behaviour in the recovery from a developed spin test		

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|-------------------------------------|---------------------------------|---|
| 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		

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|-----------------------------------|-----------------------------------|---|
| 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		

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|------------------------------|------------------------------|---|
| 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		
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|--|------------------------------|---|
| 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		
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|---|--------------------------------------|---|
| 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		
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| 1 180° turn achievable in 20 s | Yes | A |
| 2 Stall or spin occurs | No | A |