


TEST REPORT		MARGAIL Jérôme	Date	02-juin-08	
MANUFACTORY	WINDTECH	MODEL	ZEPHYR	SIZE	L
Procédure	Poids max	Weight in flight	125 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

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|------------------------------------|----|---|
| Special landing technique required | No | A |
|------------------------------------|----|---|

Measurements and possible ranges in the speeds in straight flight test

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

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|----------------------|-----------------------------|---|
| Max weight in flight | greater than 100 kg | |
| | croissant supérieur à 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

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|---------------------------------------|------------------|---|
| Tendency to return to straight flight | Spontaneous exit | A |
|---------------------------------------|------------------|---|

Classification of a paraglider's behaviour in the behaviour in a steeply banked turn test

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|---------------------------|--------------|---|
| 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	No	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 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 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 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

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
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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

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	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

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

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
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