


<b>TEST REPORT</b>		FUKUOKA Seiko	Date	16-avr-08	
<b>MANUFACTORY</b>	AXISPARA	<b>MODEL</b>	VENUS 2	<b>SIZE</b>	S
<b>Procédure</b>	Min weight	<b>Weight in flight</b>	70 kg		
<b>HARNAIS</b>	SUP AIR ACCES	<b>TYPE</b>	abs	<b>VENTRAL</b>	42 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 | up to 80 kg | increasing 40 to 55 cm | C |
|----------------------|-------------|------------------------|---|

### 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 | more than 14 m/s | B |
|---------------------------|------------------|---|

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

- |          |                            |   |
|----------|----------------------------|---|
| Entry    | Rocking back less than 45° | A |
| Recovery |                            |   |

	Spontaneous in 3 s to 5 s	B
Dive forward angle on exit	Dive forward 0° to 30° Entering a turn of less than 90°	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 30° to 60° Entering a turn of less than 90°	B
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 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 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	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 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
-------------	----	---

**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	Dedicated controls	A
2 Behaviour during big ears	Stable flight	A
3 Recovery	Spontaneous in 3 s to 5 s	B
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	Recovery through pilot action in less than a further 3 s	B
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	Turn remains constant	D
2 Turn angle to recover normal flight	With pilot action	D

**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