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| TEST REPORT | | AVENNE Patrick | Date | 10-sept-08 | |
| MANUFACTORY | AXISPARA | MODEL | VENUS 2 | SIZE | L |
| Procédure | Min weight | Weight in flight | 100 kg | | |
| HARNAIS | SUP AIR EVO XC2 | TYPE | abs | VENTRAL | 42 cm |
|  | | | LABORATOIRE AEROTEST | | |
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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 | 80 to 100 kg | increasing 45 to 60 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

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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 3 s to 5 s | B |

| | | |
|----------------------------|--|---|
| Dive forward angle on exit | Dive forward 30° to 60° Keeping course | B |
| Cascade occurs | No | A |

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

| | | |
|----------------------------|--|---|
| Entry | Rocking back greater than 45° | C |
| Recovery | Spontaneous in less than 3 s | A |
| Dive forward angle on exit | Dive forward 60° to 90° Keeping course | D |
| 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 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 | Greater than 45° | C |
| 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 | 180° to 360° 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

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

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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 | 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 |

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

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

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

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