

TEST REPORT		EXIGA Didier / patrick AVENNE	Date	12-juin-08	
MANUFACTORY	NERVURES	MODEL FAÏAL Bivouac		SIZE	M
Procédure	Poids min	Weight in flight	80 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					
	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		up to 12 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 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 3 s to 5 s	B
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 30° to 60°	B
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	90° to 180° Dive or roll angle 15° to 45°	B
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	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

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 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
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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