TEST	REPORT	MARGAIL Jérome	Date	02-juin-08	
MANUFACTORY		MODEL	ZEPHYR		
Procédure	Poids max	Weight in flight	125 kg		
HARNAIS	SUP AIR EVO XC2		abs	VENTRAL 46 cm	
				TOIRE AEROTEST	
			-	Vincent +33680121809	
				@wanadoo.fr	
Measurements	and possible ranges				
	Rising behaviour				
	r nonig bonavioar		Smooth, e	asy and constant rising	A
2	2 Special take off tech	nique	,.		-
-			No		A
Measurements a	nd possible ranges	in the landing test			
incucar cincinci a	Special landing tech				
	opoolal landing tool		No		A
Measurements a	and nossible ranges	in the speeds in straight			
measurements a	Measurement and ra		ingin test		
-	Trim speed more that	0			
	i min speed more th		Yes		A
, ,	Spood range using	the controls larger than 10			-
2	- Opeeu range using		Yes		A
	3 Minimum speed		103		
· · · · ·	s Minimum speed		Loce the	n 25 km/h	A
Classification of	a paraglidar's boba	viour in the control move		11 23 KIII/II	~
Classification of	Max weight in flight				
	wax weight in hight	greater than 100 kg			
Oleasification of				supérieur à 65 cm	Α
		viour in the pitch stabilit	y exiling acc	celerated hight test	
	Dive forward angle)ive forward	l less than 30°	٨
		L. L	live forward	liess than 30°	A
2	2 Collapse occurs		No		
Classification of	a paradidar'a baba	viour in the nitch stability	No	controlo during	A
		viour in the pitch stability	-	controls during	Δ
Classification of accelerated fligh	nt test	viour in the pitch stability	-	controls during	Δ
		viour in the pitch stabilit	y operating (controls during	Δ
accelerated fligh	t test Collapse occurs		y operating of the second s		Α
accelerated fligh	t test Collapse occurs a paraglider's beha	viour in the pitch stability	y operating of the second s		A
accelerated fligh	t test Collapse occurs		y operating (No and damping	g test	Δ
accelerated fligh	t test Collapse occurs a paraglider's beha Oscillations	viour in the roll stability	y operating No and damping Reducing	g test	Δ
accelerated fligh	t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha	viour in the roll stability viour in the stability in ge	y operating No and damping Reducing	g test	A A A
accelerated fligh	t test Collapse occurs a paraglider's beha Oscillations	viour in the roll stability viour in the stability in ge	No No And damping Reducing entle spirals	g test g s test	A
accelerated fligh Classification of Classification of	t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return	viour in the roll stability viour in the stability in g to straight flight	No No Reducing Reducing entle spirals Spontane	g test g s test eous exit	A
accelerated fligh Classification of Classification of	at test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return f a paraglider's beha	viour in the roll stability in get to straight flight viour in the behaviour in	No No Reducing Reducing entle spirals Spontane	g test g s test eous exit	A
accelerated fligh Classification of Classification of	t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return	viour in the roll stability in get to straight flight viour in the behaviour in	y operating No and damping Reducing entle spirals Spontane a steeply ba	g test g test eous exit anked turn test	A A A
accelerated fligh Classification of Classification of Classification of	 t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return for a paraglider's beha Sink rate after two to 	viour in the roll stability viour in the stability in g to straight flight viour in the behaviour in urns	y operating No and damping Reducing entle spirals Spontane a steeply ba 12 to 1	g test g test eous exit anked turn test	A
accelerated fligh Classification of Classification of Classification of	 t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return f a paraglider's beha Sink rate after two to 	viour in the roll stability in get to straight flight viour in the behaviour in	y operating No and damping Reducing entle spirals Spontane a steeply ba 12 to 1	g test g test eous exit anked turn test	A A A
accelerated fligh Classification of Classification of Classification of	 t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return for a paraglider's beha Sink rate after two to 	viour in the roll stability viour in the stability in g to straight flight viour in the behaviour in urns	y operating No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test	g test g e test eous exit anked turn test 4 m/s	Α Α Α
accelerated fligh Classification of Classification of Classification of	 a paraglider's beha Oscillations a paraglider's beha Oscillations a paraglider's beha Tendency to return is a paraglider's beha Sink rate after two to paraglider's behaviou Entry 	viour in the roll stability viour in the stability in g to straight flight viour in the behaviour in urns	y operating No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test	g test g test eous exit anked turn test	Α Α Α
accelerated fligh Classification of Classification of Classification of	 t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return f a paraglider's beha Sink rate after two to 	Eviour in the roll stability Aviour in the stability in go to straight flight Eviour in the behaviour in urns The symmetric front co	y operating of No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test Rock	g test g s test eous exit anked turn test 4 m/s ing back less than 45°	Α Α Α
accelerated fligh Classification of Classification of Classification of	 t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return for sink rate after two to paraglider's behaviou Entry Recovery 	Eviour in the roll stability Aviour in the stability in go to straight flight Aviour in the behaviour in urns ar in the symmetric front co	y operating of No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test Rock	g test g e test eous exit anked turn test 4 m/s	Α Α Α
accelerated fligh Classification of Classification of Classification of	 a paraglider's beha Oscillations a paraglider's beha Oscillations a paraglider's beha Tendency to return is a paraglider's beha Sink rate after two to paraglider's behaviou Entry 	viour in the roll stability viour in the stability in g to straight flight viour in the behaviour in urns ur in the symmetric front co on exit	y operating of No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test Rocki Spontaneou	g test g s test eous exit anked turn test 4 m/s ing back less than 45° is in less than 3 s	
accelerated fligh Classification of Classification of Classification of	 a paraglider's beha Oscillations a paraglider's beha Oscillations a paraglider's beha Tendency to return for a paraglider's beha Sink rate after two to paraglider's behaviou Entry Recovery Dive forward angle of 	viour in the roll stability viour in the stability in g to straight flight viour in the behaviour in urns ur in the symmetric front co on exit	y operating of No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test Rocki Spontaneou	g test g s test eous exit anked turn test 4 m/s ing back less than 45°	
accelerated fligh Classification of Classification of Classification of	 t test Collapse occurs a paraglider's beha Oscillations a paraglider's beha Tendency to return for sink rate after two to paraglider's behaviou Entry Recovery 	viour in the roll stability viour in the stability in g to straight flight viour in the behaviour in urns ur in the symmetric front co on exit	y operating of No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test Rocki Spontaneou e forward 0	g test g s test eous exit anked turn test 4 m/s ing back less than 45° is in less than 3 s	
accelerated fligh Classification of Classification of Classification of	 a paraglider's beha Oscillations a paraglider's beha Oscillations a paraglider's beha Tendency to return for a paraglider's beha Sink rate after two to paraglider's behaviou Entry Recovery Dive forward angle of 	viour in the roll stability viour in the stability in g to straight flight viour in the behaviour in urns ur in the symmetric front co on exit	y operating of No and damping Reducing entle spirals Spontane a steeply ba 12 to 1 llapse test Rocki Spontaneou	g test g s test eous exit anked turn test 4 m/s ing back less than 45° is in less than 3 s	

Page 2

Classification of a	paraglider's behaviour in the syr	nmetric front collapse test accelerated	
	Entry		
	-	Rocking back less than 45°	Α
	Recovery	3 1 1 1	
		Spontaneous in less than 3 s	Α
	Dive ferward angle on evit	Spontaneous in less than 5 S	A
	Dive forward angle on exit		
		Dive forward 0° to 30° Keeping course	Α
	Cascade occurs		
		No	Α
Classification of a	paraglider's behaviour in the exi	ting deep stall (parachutal stall) test	
	1 Deep stall achieved		
		Νο	Α
		110	~
	2 Recovery	On anton a sup in lass then 0 a	٨
		Spontaneous in less than 3 s	Α
	3 Dive forward angle on exit		
		Dive forward 0° to 30°	Α
	4 Change of course		
	-	Changing course less than 45°	Α
	5 Cascade occurs		
		Νο	٨
	the manual device the base of the second second		Α
		e high angle of attack recovery test	
	1 Recovery		
		Spontaneous in less than	Α
	2 Cascade occurs		
		No	Α
Classification o	f a paraglider's behaviour in th	ne full stall test	
	1 Dive forward angle on exit		
		Dive forward 0 et 30°	Α
		Dive for ward o et 50	~
	2 Collapse	N	
		No collapse	Α
	3 Cascade occurs (other than co		
		No	Α
	4 Rocking back		
		Less than 45°	Α
	5 Line tension		
		Most lines tight	٨
Classification	f e verenliderle beberiere in t	Most lines tight	Α
Classification o		e asymmetric collapse test to 50%	Α
Classification o	f a paraglider's behaviour in th Change of course until re-infla	tion	Α
Classification o	Change of course until re-infla	e asymmetric collapse test to 50%	A
Classification o		tion	A • A
Classification o	Change of course until re-infla	tion Less then 90° Dive or roll angle 0° to 15°	
Classification o	Change of course until re-infla Re-inflation behaviour	tion	A ° A A
Classification o	Change of course until re-infla	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation	Α
Classification o	Change of course until re-infla Re-inflation behaviour Total change of course	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°	
Classification o	Change of course until re-infla Re-inflation behaviour	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° occurs	A
Classification o	Change of course until re-infla Re-inflation behaviour Total change of course Collapse on the opposite side	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°	Α
Classification o	Change of course until re-infla Re-inflation behaviour Total change of course	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° occurs	A
Classification o	Change of course until re-infla Re-inflation behaviour Total change of course Collapse on the opposite side	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° occurs	A
Classification o	Change of course until re-infla Re-inflation behaviour Total change of course Collapse on the opposite side	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° occurs	A A A
Classification o	Change of course until re-infla Re-inflation behaviour Total change of course Collapse on the opposite side Twist occurs	tion Less then 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° occurs	A A A

Classification of	f a paraglider's behaviour in the asymi	netric collapse test to 50% full speed	
	Change of course until re-inflation	Loss than 00° Dive or roll apple 150 to 1	
	Re-inflation behaviour	Less then 90° Dive or roll angle 15° to 4	D [°] A
		Spontaneous re-inflation	Α
	Total change of course		
		Less than 360°	Α
	Collapse on the opposite side occurs		_
	Twist occurs	No	Α
		Νο	Α
	Cascade occurs	110	~
		No	Α
Classification of	f a paraglider's behaviour in the asymi	netric collapse test 75%	
	Change of course until re-inflation	Less then 000 Dive on well engle dEate 4	
	Re-inflation behaviour	Less then 90° Dive or roll angle 15° to 4	D° A
		Spontaneous re-inflation	Α
	Total change of course	·	
		Less than 360°	Α
	Collapse on the opposite side occurs		
	Twist occurs	Νο	Α
		Νο	Α
	Cascade occurs		
		No	Α
Classification of	f a paraglider's behaviour in the asymi	netric collapse test 75% full speed	
	Change of course until re-inflation	90° to 180° Dive or roll angle 0° to 1	۲ ۰ ۲
	Re-inflation behaviour		JA
		Spontaneous re-inflation	Α
	Total change of course		
		Less than 360°	Α
	Collapse on the opposite side occurs	Νο	٨
	Twist occurs	NO	Α
		Νο	Α
	Cascade occurs		
		No	Α
	d possible ranges in the directional control	with a maintained	
	Able to keep course	Yes	Α
2	2 180° turn away from the collapsed side		A
-		Yes	Α
	3 Amount of control range between turn a	and stall or spin	
		50 % of the symmetric control travel	Α
Measurements a	and possible ranges in the trim speed	spin tendency test	
	Spin occurs	Νο	Α
Measurements a	and possible ranges in the low speed s		A
	Spin occurs		
		No	Δ

Classification of		r in the recovery from a developed spin test	
	1 Spin rotation angle a		
		Stops spinning in less than 90°	Α
	2 Cascade occurs		
		Νο	Α
Oleccification			A
Classification		viour in the B-line stall test	
	1 Change of course be		
		Changing course less than 45°	Α
	2 Behaviour before re	lease	
		Remains stable with straight span	Α
	3 Recovery		
		Spontaneous in less than 3 s	Α
	4 Dive forward angle of		~
	4 Dive loi walu aligie c		•
	5.0	Dive forward 0° to 30°	Α
	5 Cascade occurs		
		No	Α
Classification	of a paraglider's beha	viour in the big ears test	
	1 Entry procedure		
		Dedicated controls	Α
	2 Behaviour during big		
	E Bonavioar daning big	Stable flight	Α
		Stable light	A
	3 Recovery		
		Spontaneous in less than 3 s	Α
	4 Dive forward angle of		
		Dive forward 0° to 30°	Α
Classification	of a paraglider's beha	viour in the big ears in accelerated flight test	
	1 Entry procedure		
	i Entry procedure	Dedicated controls	Α
			A
	2 Behaviour during big		-
		Stable flight	Α
	3 Recovery		
		Spontaneous in less than 3 s	Α
	4 Dive forward angle of		
		Dive forward 0° to 30°	Α
	5 Rehaviour immediat	ely after releasing the accelerator while maintaining big ears	
		Stable flight	٨
		Sidule Iligiti	Α
Classification	· · · ·	viour in the behaviour exiting a steep spiral test	
	1 Tendency to return t	o straight flight	
	-	Spontaneous exit	Α
	2 Turn angle to recove	•	
		Less than 720°, spontaneous recovery	Α
			~
		sieve in the obtained is a second dimension of the second	
Classification		viour in the alternative means of directional control test	
	1 180° turn achievable		
		Yes	Α
	2 Stall or spin occurs		
		No	Α