	T REPORT	MARGAIL Jérome	Date	02-juin-08	
MANUFACT	WINDTECH	MODEL	ZEPHYR	SIZE	1
Procédure	Max weight	Weight in flight	110 kg	· · · ·	
HARNAIS	SUP AIR EVO XC2		abs	VENTRAL 46	cm
				RE AEROTEST	5111
				cent +33680121809	
		FFVL	teulier.v.s@w	<u>anadoo.fr</u>	
Measureme	ents and possible r	anges			
	Rising behaviour				
i	nising benaviour		Ownersting of	e and a substant visi	
			Smooth, e	asy and constant risi	ng A
2	Special take off tec	hnique			
			No		Α
Measureme	nts and possible ra	anges in the landing test			
modouromo	Special landing tecl				
	Special landing lect				
			No		Α
Measureme	nts and possible ra	anges in the speeds in strai	ight flight test		
	Measurement and I	anges			
1	Trim speed more th				
1	min speed more ti		Vee		
			Yes		Α
2	Speed range using	the controls larger than 10 kr	n/h		
			Yes		Α
3	Minimum speed				
0	Minimum opeca		Loop the	n 25 km/h	٨
<b>o</b> l 10 - 11					Α
Classificatio		behaviour in the control m	ovement test		
	Max weight in flight	greater than 100 kg			
			croissant	supérieur à 65 cm	Α
Classificati	on of a naradlidar's	behaviour in the pitch stat			~
1	Dive forward angle	on exit			_
			Dive forward	l less than 30°	Α
2	Collapse occurs				
			No		Α
Classificatio	on of a naradlider's	behaviour in the pitch stat	vility operating	a controls during	
		benaviour in the pitch star	mity operating	g controls during	
accelerated	-				
	Collapse occurs				
			No		Α
Classificatio	on of a paraglider's	behaviour in the roll stabil	itv and dampi	na test	
	Oscillations				
	Oscillations		Deducin	-	٨
			Reducing		Α
Classification	· · ·	behaviour in the stability i	n gentle spira	ls test	
	Tendency to return	to straight flight			
			Spontane	eous exit	Α
Classificati	on of a naradlider's	behaviour in the behaviou			
olassinoati	Sink rate after two t		i in a steepiy i		
	Sink rate after two i	ums			
			12 to 1	4 m/s	Α
Classification	of a paraglider's be	haviour in the symmetric from	t collapse test		
	Entry				
	,		Rock	ing back less than 45	° <b>A</b>
	Pagayers		HUCK	ing such loss that to	A
	Recovery		0		
			Spontaneou	is in less than 3 s	Α
	Dive forward angle	on exit			
		D	ive forward 0	o to 30° Keeping cours	se A
	Cascade occurs				
			No		Α

Classification of a paraglider's	behaviour in the symmetric front collapse test accelerated	
Entry	Rocking back less than 45°	Α
Recovery		~
Dive ferward on	Spontaneous in less than 3 s	Α
Dive forward an	Dive forward 0° to 30° Entering a turn of less than 90	° <b>A</b>
Cascade occurs		
Classification of a paraglider's	No s behaviour in the exiting deep stall (parachutal stall) test	Α
1 Deep stall achie		
	No	Α
2 Recovery	Spontaneous in less than 3 s	Α
3 Dive forward an	gle on exit	
4 Chappage of course	Dive forward 0° to 30°	Α
4 Change of cours	Changing course less than 45°	Α
5 Cascade occurs		
Classification of a paradid	No er's behaviour in the high angle of attack recovery test	Α
1 Recovery		
	Spontaneous in less than	Α
2 Cascade occurs	Νο	Α
	er's behaviour in the full stall test	
Classification of a paraglide 1 Dive forward an	gle on exit	R
		В
1 Dive forward an 2 Collapse	gle on exit Dive forward 30 et 60° No collapse	B
1 Dive forward an 2 Collapse	gle on exit Dive forward 30 et 60° No collapse (other than collapses)	Α
1 Dive forward an 2 Collapse	gle on exit Dive forward 30 et 60° No collapse	
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> </ol>	gle on exit Dive forward 30 et 60° No collapse (other than collapses)	Α
1 Dive forward an 2 Collapse 3 Cascade occurs	gle on exit Dive forward 30 et 60° No collapse (other than collapses) No Less than 45°	A A A
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol>	gle on exit Dive forward 30 et 60° No collapse (other than collapses) No Less than 45° Most lines tight er's behaviour in the asymmetric collapse test to 50%	A
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol>	gle on exit Dive forward 30 et 60° No collapse (other than collapses) No Less than 45° Most lines tight er's behaviour in the asymmetric collapse test to 50% se until re-inflation	A A A A
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol>	gle on exit Dive forward 30 et 60° No collapse (other than collapses) No Less than 45° Most lines tight er's behaviour in the asymmetric collapse test to 50% se until re-inflation Less then 90° Dive or roll angle 15° to 45	A A A A
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol> Classification of a paraglide Change of cours Re-inflation beh	gle on exit Dive forward 30 et 60° No collapse (other than collapses) Less than 45° Less than 45° Most lines tight Ler's behaviour in the asymmetric collapse test to 50% Se until re-inflation Less then 90° Dive or roll angle 15° to 45 aviour Spontaneous re-inflation	A A A A
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol> Classification of a paraglide Change of cours	gle on exit Dive forward 30 et 60° No collapse (other than collapses) No Less than 45° Most lines tight er's behaviour in the asymmetric collapse test to 50% se until re-inflation Less then 90° Dive or roll angle 15° to 45 aviour Spontaneous re-inflation course	A A A A A °î^
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol> Classification of a paraglide Change of cours Re-inflation beh Total change of	gle on exit Dive forward 30 et 60° No collapse (other than collapses) Less than 45° Less than 45° Most lines tight Ler's behaviour in the asymmetric collapse test to 50% Se until re-inflation Less then 90° Dive or roll angle 15° to 45 aviour Spontaneous re-inflation	A A A A
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol> Classification of a paraglide Change of cours Re-inflation beh Total change of Collapse on the	gle on exit Dive forward 30 et 60° Dive forward 30 et 60° No collapse (other than collapses) No Less than 45° Less than 45° Most lines tight Constrained to 50% Securit re-inflation Less then 90° Dive or roll angle 15° to 45 aviour Course Less than 360°	A A A A A °î^
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol> Classification of a paraglide Change of cours Re-inflation beh Total change of	gle on exit Dive forward 30 et 60° No collapse (other than collapses) No Less than 45° Most lines tight er's behaviour in the asymmetric collapse test to 50% se until re-inflation Less then 90° Dive or roll angle 15° to 45 aviour Spontaneous re-inflation course Less than 360° opposite side occurs No	A A A A A A A A
<ol> <li>Dive forward an</li> <li>Collapse</li> <li>Cascade occurs</li> <li>Rocking back</li> <li>Line tension</li> </ol> Classification of a paraglide Change of cours Re-inflation beh Total change of Collapse on the	gle on exit Dive forward 30 et 60° No collapse (other than collapses) No Less than 45° Most lines tight er's behaviour in the asymmetric collapse test to 50% se until re-inflation Less then 90° Dive or roll angle 15° to 45 aviour Spontaneous re-inflation course Less than 360° opposite side occurs No	A A A A A

Classificat	Change of course until re-inflation	ymmetric collapse test to 50% full speed	
		Less then 90° Dive or roll angle 15° to	45° A
	Re-inflation behaviour		
		Spontaneous re-inflation	Α
	Total change of course		
		Less than 360°	Α
	Collapse on the opposite side occurs		
		No	Α
	Twist occurs	Νο	٨
	Cascade occurs	NO	Α
		No	Α
Classificat	ion of a paraglider's behaviour in the as		~
	Change of course until re-inflation		
		90° to 180° Dive or roll angle 15° to	45° B
	Re-inflation behaviour		
		Spontaneous re-inflation	Α
	Total change of course		
		Less than 360°	Α
	Collapse on the opposite side occurs	Νο	٨
	Twist occurs	NO	Α
		No	Α
	Cascade occurs		
		No	Α
Classificat	ion of a paraglider's behaviour in the as	ymmetric collapse test 75% full speed	
	Change of course until re-inflation		
	-	90° to 180° Dive or roll angle 15° to	45° B
	Re-inflation behaviour	-	
	Re-inflation behaviour	90° to 180° Dive or roll angle 15° to Spontaneous re-inflation	45° B A
	-	Spontaneous re-inflation	Α
	Re-inflation behaviour Total change of course	-	
	Re-inflation behaviour	Spontaneous re-inflation	Α
	Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Spontaneous re-inflation Less than 360°	A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Spontaneous re-inflation Less than 360° No No	A A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No No No	A A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs nts and possible ranges in the directional cor	Spontaneous re-inflation Less than 360° No No No	A A A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Spontaneous re-inflation Less than 360° No No No	A A A A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional cor</b> 1 Able to keep course	Spontaneous re-inflation Less than 360° No No No trol with a maintained Yes	A A A A
	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs nts and possible ranges in the directional cor	Spontaneous re-inflation Less than 360° No No No trol with a maintained Yes ossible in 10 s	A A A A A
:	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional con</b> 1 Able to keep course 2 180° turn away from the collapsed side p	Spontaneous re-inflation Less than 360° No No No trol with a maintained Yes ossible in 10 s Yes	A A A A A
:	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional con</b> 1 Able to keep course 2 180° turn away from the collapsed side p 3 Amount of control range between turn an	Spontaneous re-inflation Less than 360° No No No Atrol with a maintained Yes ossible in 10 s Yes d stall or spin	A A A A A A A
:	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional con</b> 1 Able to keep course 2 180° turn away from the collapsed side p 3 Amount of control range between turn an <b>More tha</b>	Spontaneous re-inflation Less than 360° No No No trol with a maintained Yes ossible in 10 s Yes d stall or spin n 50 % of the symmetric control travel	A A A A A
:	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional con</b> 1 Able to keep course 2 180° turn away from the collapsed side p 3 Amount of control range between turn an	Spontaneous re-inflation Less than 360° No No No trol with a maintained Yes ossible in 10 s Yes d stall or spin n 50 % of the symmetric control travel	A A A A A A A
:	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional con</b> 1 Able to keep course 2 180° turn away from the collapsed side p 3 Amount of control range between turn an More that ents and possible ranges in the trim spe	Spontaneous re-inflation Less than 360° No No No trol with a maintained Yes ossible in 10 s Yes d stall or spin n 50 % of the symmetric control travel	A A A A A A A
Measurem	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional con</b> 1 Able to keep course 2 180° turn away from the collapsed side p 3 Amount of control range between turn an <b>More that</b> <b>ents and possible ranges in the trim spe</b> Spin occurs	Spontaneous re-inflation Less than 360° No No No No Atrol with a maintained Yes ossible in 10 s Yes d stall or spin in 50 % of the symmetric control travel red spin tendency test	A A A A A A A
Measurem	Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs <b>nts and possible ranges in the directional con</b> 1 Able to keep course 2 180° turn away from the collapsed side p 3 Amount of control range between turn an More tha <b>ents and possible ranges in the trim spe</b> Spin occurs	Spontaneous re-inflation Less than 360° No No No No Atrol with a maintained Yes ossible in 10 s Yes d stall or spin in 50 % of the symmetric control travel red spin tendency test	A A A A A A A

Classifica	<b>*</b> U	naviour in the recovery from a developed spin test	
	1 Spin rotation angle		
		Stops spinning in less than 90°	Α
	2 Cascade occurs	No	٨
Classifi	cation of a naradlider's	No behaviour in the B-line stall test	Α
Classille	1 Change of course b		
	r onlange of oodise b	Changing course less than 45°	Α
	2 Behaviour before re		
		Remains stable with straight span	Α
	3 Recovery		
		Spontaneous in less than 3 s	Α
	4 Dive forward angle		
	5 Cascade occurs	Dive forward 0° to 30°	Α
	J Cascade occurs	No	Α
Classifi	cation of a paraglider's	behaviour in the big ears test	
	1 Entry procedure		
		Dedicated controls	Α
	2 Behaviour during bi		
		Stable flight	Α
	3 Recovery	On anton a cut in lage than 0 a	
	4 Dive forward angle	Spontaneous in less than 3 s	Α
	4 Dive forward angle	Dive forward 0° to 30°	Α
Classifi	cation of a paraglider's	behaviour in the big ears in accelerated flight test	
	1 Entry procedure		
		Dedicated controls	Α
	2 Behaviour during bi		
		Stable flight	Α
	3 Recovery	Cooptensous in less than 2 a	٨
	4 Dive forward angle	Spontaneous in less than 3 s	Α
		Dive forward 0° to 30°	Α
	5 Behaviour immediat	ely after releasing the accelerator while maintaining big ears	
		Stable flight	Α
Classifi		behaviour in the behaviour exiting a steep spiral test	
	1 Tendency to return		
	0 <b>T</b>	Spontaneous exit	Α
	2 Turn angle to recov		٨
Classifi	cation of a paradider's	Less than 720°, spontaneous recovery behaviour in the alternative means of directional control test	Α
51055110	1 180° turn achievabl		
		Yes	Α
	2 Stall or spin occurs		
		No	Α