TEST	REPORT	FUKUOKA Seiko	Date	16-avr-08	
MANUFACTORY		MODEL	FAIAL Bivouac	SIZE XS	
Procédure	Min weight	Weight in fkight	55 kg	in test 58 kg	•
HARNAIS	SUP AIR Altiplume		abs	VENTRAL 42 c	m
CIANNAIS	Jour Ain Ailipiume	ILIEE.		ATOIRE AEROTEST	111
			_		
				Vincent +33680121809	
			<u>teulie</u>	er.v.s@wanadoo.fr	
Measurements	and possible ranges	S			
1	Rising behaviour				
			Smooth, e	easy and constant risir	ng A
2	Special take off tecl	hnique		-	
_			No		
Massuramente s	and possible ranges	in the landing test			
weasurements a					
	Special landing tech	nnique required			
			No		- 1
Measurements a	and possible ranges		raight flight test		
	Measurement and r	ranges			
1	Trim speed more th	an 30 km/h			
	·		Yes		
	2 Speed range using	the controls larger th			_
-	- opeca range asing	the controls larger tr	Yes		
,	Minimum andad		163		•
	3 Minimum speed		I and the	OF L //-	
			Less tha	an 25 km/h	- 1
Classification of	<sup>r</sup> a paraglider's beha	aviour in the contro	l movement test		
	Max weight in flight	up to 80 kg			
	Max weight in flight	up to 80 kg	increasing	greater than 55cm	
	Max weight in flight	up to 80 kg	increasing (	greater than 55cm	A
					A
	a paraglider's beha	aviour in the pitch s		greater than 55cm	Å
		aviour in the pitch s	tability exiting ac	celerated flight test	
	a paraglider's beha	aviour in the pitch s	tability exiting ac		
1	a paraglider's beha	aviour in the pitch s	tability exiting ac	celerated flight test	
1	<b>a paraglider's beha</b> Dive forward angle	aviour in the pitch s	tability exiting ac	celerated flight test	Å
2	f a paraglider's beha Dive forward angle Collapse occurs	aviour in the pitch s on exit	tability exiting ac Dive forward No	celerated flight test	Å
2 Classification of	f a paraglider's behand in Dive forward angle 2 Collapse occurs a paraglider's behand	aviour in the pitch s on exit	tability exiting ac Dive forward No	celerated flight test	# #
2 Classification of	f a paraglider's behand angle Dive forward angle Collapse occurs a paraglider's behand test	aviour in the pitch s on exit	tability exiting ac Dive forward No	celerated flight test	Å
2 Classification of	f a paraglider's behand in Dive forward angle 2 Collapse occurs a paraglider's behand	aviour in the pitch s on exit	tability exiting ac Dive forward No tability operating	celerated flight test	J
Classification of accelerated fligh	f a paraglider's behand I Dive forward angle Collapse occurs a paraglider's behand test Collapse occurs	aviour in the pitch son exit	Dive forward  No tability operating	celerated flight test d less than 30° controls during	J
Classification of accelerated fligh	f a paraglider's behand a Dive forward angle  Collapse occurs  a paraglider's behand test  Collapse occurs	aviour in the pitch son exit	Dive forward  No tability operating	celerated flight test d less than 30° controls during	Ą
Classification of accelerated fligh	f a paraglider's behand I Dive forward angle Collapse occurs a paraglider's behand test Collapse occurs	aviour in the pitch son exit	Dive forward  No tability operating	celerated flight test d less than 30° controls during	J
Classification of accelerated fligh	f a paraglider's behand a Dive forward angle  Collapse occurs  a paraglider's behand test  Collapse occurs	aviour in the pitch son exit	Dive forward  No tability operating	d less than 30°  controls during	J
Classification of accelerated fligh	f a paraglider's behand of Dive forward angle  Collapse occurs  a paraglider's behand test  Collapse occurs  a paraglider's behand oscillations	aviour in the pitch son exit	Dive forward  No tability operating  No bility and dampin	celerated flight test d less than 30° controls during	J
Classification of accelerated fligh	f a paraglider's behand a paraglider's behand test Collapse occurs  a paraglider's behand test Collapse occurs  f a paraglider's behand oscillations	aviour in the pitch son exit  aviour in the pitch son exit	Dive forward  No tability operating  No bility and dampin	celerated flight test d less than 30° controls during	J
Classification of accelerated fligh	f a paraglider's behand of Dive forward angle  Collapse occurs  a paraglider's behand test  Collapse occurs  a paraglider's behand oscillations	aviour in the pitch son exit  aviour in the pitch son exit	Dive forward  No tability operating  No bility and damping  Reducing	celerated flight test d less than 30°  controls during  g test	j
Classification of Classification of Classification of	a paraglider's behand a paraglider's behand test Collapse occurs Coscillations Coscillat	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard in the stability to straight flight	Dive forward  No tability operating  No tability and dampin  Reducin  y in gentle spirals	celerated flight test  d less than 30°  controls during  g test  g s test  eous exit	j
Classification of Classification of Classification of	a paraglider's behand of the state of the st	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard in the stability to straight flight	Dive forward  No tability operating  No tability and dampin  Reducin  y in gentle spirals	celerated flight test  d less than 30°  controls during  g test  g s test  eous exit	
Classification of Classification of Classification of	a paraglider's behand a paraglider's behand test Collapse occurs Coscillations Coscillat	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard in the stability to straight flight	Dive forward  No tability operating  No bility and damping  Reducing  y in gentle spirals  Spontant  our in a steeply b	celerated flight test d less than 30° controls during  g test g s test eous exit anked turn test	
Classification of Classification of Classification of	a paraglider's behand of the state of the st	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard in the stability to straight flight	Dive forward  No tability operating  No bility and damping  Reducing  y in gentle spirals  Spontant  our in a steeply b	celerated flight test  d less than 30°  controls during  g test  g s test  eous exit	
Classification of	a paraglider's behand of the state of the st	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight aviour in the behaviour in the beha	Dive forward  No tability operating  No tability and dampin  Reducin  y in gentle spirals  Spontan our in a steeply b	celerated flight test d less than 30° controls during  g test g s test eous exit anked turn test	
Classification of	a paraglider's behavious faraglider's	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight aviour in the behaviour in the beha	Dive forward  No tability operating  No tability and dampin  Reducin  y in gentle spirals  Spontan our in a steeply b	celerated flight test d less than 30° controls during  g test g s test eous exit anked turn test	
Classification of	a paraglider's behand a paraglider's behand test Collapse occurs a paraglider's behand test Collapse occurs a paraglider's behand Oscillations a paraglider's behand Tendency to return a paraglider's behand Sink rate after two tests	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight aviour in the behaviour in the beha	Dive forward  No tability operating  No tability and dampin  Reducin  y in gentle spirals  Spontan  our in a steeply b  up to	celerated flight test d less than 30°  controls during  g test  g s test  eous exit  anked turn test  12 m/s	
Classification of	a paraglider's behavious forward angle Collapse occurs a paraglider's behavious Entry	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight aviour in the behaviour in the beha	Dive forward  No tability operating  No tability and dampin  Reducin  y in gentle spirals  Spontan  our in a steeply b  up to	celerated flight test d less than 30° controls during  g test g s test eous exit anked turn test	
Classification of	a paraglider's behavious faraglider's	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight aviour in the behaviour in the beha	Dive forward  No tability operating  No tability and dampin  Reducing  Y in gentle spirals  Spontant  Our in a steeply b  up to  ront collapse test	celerated flight test d less than 30°  controls during  g test eous exit eanked turn test  12 m/s  king back less than 45°	
Classification of	a paraglider's behavious faraglider's faraglider's behavious faraglider's faraglider'	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight  aviour in the behaviour in the symmetric from the symmetr	Dive forward  No tability operating  No tability and dampin  Reducing  Y in gentle spirals  Spontant  Our in a steeply b  up to  ront collapse test	celerated flight test d less than 30°  controls during  g test  g s test  eous exit  anked turn test  12 m/s	
Classification of	a paraglider's behavious forward angle Collapse occurs a paraglider's behavious Entry	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight  aviour in the behaviour in the symmetric from the symmetr	Dive forward  No tability operating  No tability and dampin  Reducin  Fy in gentle spirals  Spontan  Our in a steeply b  up to  Tont collapse test  Rock  Spontaneou	celerated flight test d less than 30°  controls during  g test  g s test  eous exit eanked turn test  12 m/s  king back less than 45° us in less than 3 s	
Classification of	a paraglider's behavious Collapse occurs a paraglider's behavious Collapse occurs a paraglider's behavious a paraglider's behavious a paraglider's behavious a paraglider's behavious E a paraglider's behavious Sink rate after two to paraglider's behavious Entry Recovery Dive forward angle	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight  aviour in the behaviour in the symmetric from the symmetr	Dive forward  No tability operating  No tability and dampin  Reducin  Fy in gentle spirals  Spontan  Our in a steeply b  up to  Tont collapse test  Rock  Spontaneou	celerated flight test d less than 30°  controls during  g test eous exit eanked turn test  12 m/s  king back less than 45°	
Classification of accelerated fligh  Classification of Classificat	a paraglider's behavious faraglider's faraglider's behavious faraglider's faraglider'	aviour in the pitch son exit  aviour in the pitch son exit  aviour in the roll standard to straight flight  aviour in the behaviour in the symmetric from the symmetr	Dive forward  No tability operating  No tability and dampin  Reducin  Fy in gentle spirals  Spontan  Our in a steeply b  up to  Tont collapse test  Rock  Spontaneou	celerated flight test d less than 30°  controls during  g test  g s test  eous exit eanked turn test  12 m/s  king back less than 45° us in less than 3 s	# # # # # # # # # # # # # # # # # # #

Classification of a paragnue	r's behaviour in the symmetric front collapse test accelerated	
Entry	*	
Recover	Rocking back less than 45°	Α
Dive forv	Spontaneous in less than 3 s ward angle on exit	Α
Cascade	Dive forward 0° to 30° Keeping course	Α
	No	Α
	r's behaviour in the exiting deep stall (parachutal stall) test	
1 Deep sta	all achieved  Yes	٨
2 Recover		Α
	Spontaneous in less than 3 s	Α
3 Dive forv	ward angle on exit  Dive forward 0° to 30°	Α
4 Change	of course	
5 Cascade	Changing course less than 45°	Α
0 000000	No	Α
Classification of a paragli	ider's behaviour in the high angle of attack recovery test	
1 Recover		
	Spontaneous in less than 3s	Α
2 Cascade	e occurs No	Α
Classification of a paragli	ider's behaviour in the full stall test	7.
1 Dive forv	ward angle on exit	
	Dive forward 0 et 30°	Α
1 Dive forv 2 Collapse	Dive forward 0 et 30°	
2 Collapse	Dive forward 0 et 30°  No collapse	A
2 Collapse	Dive forward 0 et 30°  No collapse e occurs (other than collapses)	Α
2 Collapse	Dive forward 0 et 30°  No collapse e occurs (other than collapses)  No	
2 Collapse 3 Cascade 4 Rocking	Dive forward 0 et 30°  No collapse  c occurs (other than collapses)  No back  Less than 45°	Α
2 Collapse 3 Cascade	Dive forward 0 et 30°  No collapse  c occurs (other than collapses)  No back  Less than 45° sion	A
2 Collapse 3 Cascade 4 Rocking 5 Line tens	Dive forward 0 et 30°  No collapse  c occurs (other than collapses)  No back  Less than 45° sion  Most lines tight	A
2 Collapse 3 Cascade 4 Rocking 5 Line tens  Classification of a paragli	Dive forward 0 et 30°  No collapse  c occurs (other than collapses)  No back  Less than 45° sion	A
2 Collapse 3 Cascade 4 Rocking 5 Line tens  Classification of a paragli Change	No collapse e occurs (other than collapses)  No back Less than 45° sion Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation Less then 90° Dive or roll angle 15° to 48	A A A
2 Collapse 3 Cascade 4 Rocking 5 Line tens  Classification of a paragli Change	No collapse e occurs (other than collapses)  back  Less than 45° sion  Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation  Less then 90° Dive or roll angle 15° to 45 tion behaviour	A A A
2 Collapse 3 Cascade 4 Rocking 5 Line tens  Classification of a paragli Change  Re-inflat	No collapse e occurs (other than collapses)  No back  Less than 45° sion  Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation  Less then 90° Dive or roll angle 15° to 45 tion behaviour  Spontaneous re-inflation	A A A
2 Collapse 3 Cascade 4 Rocking 5 Line tens  Classification of a paragli Change  Re-inflat	No collapse e occurs (other than collapses)  back  Less than 45° sion  Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation  Less then 90° Dive or roll angle 15° to 45 tion behaviour	A A A 5° A
2 Collapse 3 Cascade 4 Rocking 5 Line tens  Classification of a paragli Change Re-inflat Total cha	No collapse e occurs (other than collapses)  No back Less than 45° sion Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation Less then 90° Dive or roll angle 15° to 45 tion behaviour Spontaneous re-inflation ange of course Less than 360° e on the opposite side occurs	A A A A A A
2 Collapse 3 Cascade 4 Rocking 5 Line tens Classification of a paragli Change Re-inflat Total cha	No collapse e occurs (other than collapses)  No back  Less than 45° sion  Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation  Less then 90° Dive or roll angle 15° to 48 tion behaviour  Spontaneous re-inflation ange of course Less than 360° e on the opposite side occurs	A A A A A A A
2 Collapse 3 Cascade 4 Rocking 5 Line tens  Classification of a paragli Change Re-inflat Total cha	No collapse e occurs (other than collapses)  No back  Less than 45° sion  Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation  Less then 90° Dive or roll angle 15° to 45 tion behaviour  Spontaneous re-inflation ange of course  Less than 360° e on the opposite side occurs  No course	A A A A A A
2 Collapse 3 Cascade 4 Rocking 5 Line tens Classification of a paragli Change Re-inflat Total cha Collapse	No collapse  a occurs (other than collapses)  No back  Less than 45° sion  Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation  Less then 90° Dive or roll angle 15° to 48 tion behaviour  Spontaneous re-inflation ange of course  Less than 360° e on the opposite side occurs  No	A A A A A A A
2 Collapse 3 Cascade 4 Rocking 5 Line tens Classification of a paragli Change Re-inflat Total cha	No collapse  a occurs (other than collapses)  No back  Less than 45° sion  Most lines tight ider's behaviour in the asymmetric collapse test to 50% of course until re-inflation  Less then 90° Dive or roll angle 15° to 48 tion behaviour  Spontaneous re-inflation ange of course  Less than 360° e on the opposite side occurs  No	A A A A A A

Classification of		viour in the asymmetric collapse test to 50% full speed	
	Change of course u		
	Re-inflation behavio	90° to 180° Dive or roll angle 0° to 19 our	5° A
		Spontaneous re-inflation	Α
	Total change of cou		A
	Collapse on the opp	Less than 360°	Α
		No	Α
	Twist occurs	No	Α
	Cascade occurs		
Classification of	f a naraglidar'e haha	viour in the asymmetric collapse test 75%	Α
Classification of	Change of course u		
	Onlange of course a	90° to 180° Dive or roll angle 15° to 49	5°B
	Re-inflation behavio		
	Total change of cou	Spontaneous re-inflation	Α
	Total change of cou	Less than 360°	Α
	Collapse on the opp		
	<b>-</b>	No	Α
	Twist occurs	No	Α
	Cascade occurs	NO	A
		No	Α
Classification of		viour in the asymmetric collapse test 75% full speed	
	Change of course u	90° to 180° Dive or roll angle 45° to 60	<b>0∘</b> ℃
	Re-inflation behavio	•	0 0
		Spontaneous re-inflation	Α
	Total change of cou		
	Collapse on the opp	Less than 360°	Α
	Ooliapse on the opp	No	Α
	Twist occurs		
	Cascade occurs	No	Α
	Cascade occurs	No	Α
		e directional control with a maintained asymmetric collapse test	
	1 Able to keep course	Yes	Α
	2 180° turn away from	n the collapsed side possible in 10 s	A
]		Yes	Α
	3 Amount of control ra	ange between turn and stall or spin  More than 50 % of the symmetric control travel	Α
Measurements a	and possible ranges	in the trim speed spin tendency test	A
	Spin occurs		
1.0		No	Α
Measurements a	and possible ranges Spin occurs	in the low speed spin tendency test	
	Opin occurs	No	Α
	2 0	r in the recovery from a developed spin test	
	Spin rotation angle a	after release Stops spinning in less than 90°	Α
2	2 Cascade occurs	Ctope op.ining in 1000 than 50	

	No	Α
Classification of a paraglider's beha		
1 Change of course be	Changing course less than 45°	Α
2 Behaviour before re		A
2 Deliaviour before te	Remains stable with straight span	Α
3 Recovery	riomanio otabio triti ottalgiti opan	
,	Spontaneous in less than 3 s	Α
4 Dive forward angle of	on exit	
	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		
2 Donaviour dannig biş	Stable flight	Α
3 Recovery	3	
	Spontaneous in less than 3 s	Α
4 Dive forward angle of		
Classification of a paraglidar's bobs	Dive forward 0° to 30° viour in the big ears in accelerated flight test	Α
1 Entry procedure	would the thig ears in accelerated highlitest	
r Emry procedure	Dedicated controls	Α
2 Behaviour during biç	g ears	
	Stable flight	Α
3 Recovery		_
4 Dive females and a select	Spontaneous in 3 s to 5 s	Α
4 Dive forward angle of	Dive forward 0° to 30°	Α
5 Behaviour immediat	ely after releasing the accelerator while maintaining big ears	
	Stable flight	Α
Classification of a paraglider's beha	viour in the behaviour exiting a steep spiral test	
1 Tendency to return t		
	Spontaneous exit	Α
Turn angle to recove 2	er normal flight	
۷	Less than 720°, spontaneous recovery	Α
Classification of a paraglider's beha	viour in the alternative means of directional control test	
1 180° turn achievable		
	Yes	Α
2 Stall or spin occurs		
	No	Α