

Certification number

Date of flight test

Place of test

PG 052.2007 30/01/2007 Villeneuve



 Manufacturer
 Trekking

 Address
 B.P. 41

 13410 Lambesc
 France

 Representive
 None

 Type of glider
 Vanquish M

 Trimmer
 not available

Classification B

Test Pilot Claude Thurnheer Harness sup air light Total weight in flight 75 kg Alain Zoller Sup'Air Light 95 kg

		Min weight		Max weight	
1. Inflation/Ta		-			
	Rising behaviour	Smooth, easy and constant rising	Α	Smooth, easy and constant rising	A
	Special take off technique required	No	А	No	A
2. Landing		Na	А	No	
3. Speed in s	Special landing technique required	No	A	No	A
5. Speed in S	Trim speed more than 30 km/h	Yes	А	Yes	A
	Speed range using the controls larger than 10 km/h	Yes	A	Yes	A
	Minimum speed	Less than 25 km/h	А	Less than 25 km/h	A
4. Control mo					
	Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	Increasing, Greater than 60 cm	A	not available	(
	Max. weight in flight 80 kg to 100 kg Symmetric control pressure/travel	not available	0	Increasing, Greater than 60 cm	A
	Max. weight in flight greater than 100 kg	not available	0	increasing, creater than oo chi	
	Symmetric control pressure/travel	not available	0	not available	(
5. Pitch stabi	lity exiting accelerated flight				
	Dive forward angle on exit	Dive forward less than 30°	А	Dive forward less than 30°	A
	Collapse occurs	No	A	No	A
6. Pitch stabi	lity operating controls during accelerated flight	No	^	Ne	
7 Roll stabili	Collapse occurs ty and damping	No	A	No	A
	Oscillations	Reducing	А	Reducing	A
8. Stability in	gentle spirals	.			
	Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	A
9. Behaviour	in a steeply banked turn				
	Sink rate after two turns	12 m/s to 14 m/s	A	More than 14 m/s	B
10. Symmetri	c front collapse	Reaking back loss than 45%	А	Rocking back less than 45°	А
	Entry Recovery	Rocking back less than 45° Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	A	Dive foward 0°to 30°, Keeping course	A
	Cascade occurs	No	A	No	A
	With accelerator				
	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	A	Dive foward 0°to 30°, Keeping course	A
11 Exiting d	Cascade occurs eep stall (parachutal stall)	No	A	No	A
TT. Exiting ut	Deep stall achieved	Yes	А	Yes	A
	Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Dive forward angle on exit	Dive forward 0°to 30°	Α	Dive forward 0°to 30°	A
	Change of course	Changing course less than 45°	А	Changing course less than 45°	A
	Cascade occurs	No	A	No	A
12. High angl	e of attack recovery	Spontoneous in loss than 3 a	А	Spontaneous in less than 3 s	А
	Recovery Cascade occurs	Spontaneous in less than 3 s No	A	No	A
13. Recovery	from a developed full stall		~	110	
,	Dive forward angle on exit	Dive forward 0°to 30°	А	Dive forward 30°to 60°	В
	Collapse	No collapse	Α	No collapse	A
	Cascade occurs (other than collapse)	No	А	No	A
	Rocking back	Less than 45°	A	Less than 45°	A
14. Asymmet	Line tension	Most line tight	A	Most line tight	A
Asymmet	With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	А	Less than 90°, Dive or roll angle 0° to 15°	A
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	A
	Total change of course	Less than 360°	А	Less than 360°	A
	Collapse on the opposite side occurs	No	А	No	A
	Twist occurs	No	A	No	A
	Cascade occurs With 75% collapse-Maximum dive forward or roll angle	No	A	No	A
	Change of course until re-inflation	90° to 180°, Dive or roll angle 15° to 45°	в	90° to 180°, Dive or roll angle 15° to 45°	В
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
	Total change of course	Less than 360°	A	Less than 360°	A
	Collapse on the opposite side occurs	No	А	No	A
	Twist occurs	No	Α	No	A
	Cascade occurs	No	A	No	A
	With 50% collapse and accelerator-Maximum dive forward or Change of course until re-inflation		٨	Loss than 90° Dive or roll angle 45° to 45° 11	٨
	Re-inflation behaviour	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation	A A	Less than 90°, Dive or roll angle 15° to 45ï¿1/2 Spontaneous re-inflation	A A
	Total change of course	Less than 360°	A	Less than 360°	A
	Collapse on the opposite side occurs	No		No	A

	Twist occurs	Νο	Δ	No	А
	Cascade occurs	No	A	No	A
	With 75% collapse and accelerator-Maximum dive forward or		~		~
	Change of course until re-inflation	90° to 180°, Dive or roll angle 15° to 45°	в	90° to 180°, Dive or roll angle 15° to $45\ddot{\imath}_{1/2}$	В
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
		Less than 360°	Â	Less than 360°	Â
	Total change of course				
	Collapse on the opposite side occurs	No	A	No	A
	Twist occurs	No	Α	No	Α
	Cascade occurs	No	А	No	А
15. Directiona	al control with a maintained asymmetric collapse				
	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	А	More than 50 % of the symmetric control travel	А
16. Trim spee	ed spin tendency				
	Spin occurs	No	А	No	Α
17. Low spee	d spin tendency				
	Spin occurs	No	А	No	А
18. Recovery	from a developed spin				
	Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	Α
	Cascade occurs	No	А	No	Α
19. B-line sta	II				
	Change of course before release	Change of course less than 45°	А	Change of course less than 45°	А
	Behaviour before release	Remains stable with straight span	А	Remains stable with straight span	А
	Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
	Cascade occurs	No	A	No	A
20. Big ears					
201 2.9 00.0	Entry procedure	Standard technique	А	Standard technique	А
	Behaviour during big ears	Stable flight	A	Stable flight	A
	Recovery	Recovery through pilot action in less than a futher		Recovery through pilot action in less than a futher	
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
21 Big oars i	n accelerated flight	Dive forward 0 to 50	~	Dive forward 0 to 30	~
ZI. DIY ears I	•	Standard technique	А	Standard technique	А
	Entry procedure	•		Standard technique	
	Behaviour during big ears	Stable flight	A	Stable flight	А . р
	Recovery	Recovery through pilot action in less than a futher		Recovery through pilot action in less than a futher	
	Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
oo Dahaal	Behaviour immediately after releasing the accelerator while	Stable flight	А	Stable flight	A
22. Behaviou	r exiting a steep spiral				
	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	А	Less than 720°, spontaneous recovery	А
	Sink rate when evaluating spiral stability [m/s]	15 m/s		19 m/s	
23. Alternativ	e means of directional control				
	180° turn achievable in 20 s	Yes	А	Yes	А
	Stall or spin occurs	No	А	No	А
24. Any other	r flight procedure and/or configuration described in the use				
	Procedure works as described	not available	0	not available	0
	Procedure suitable for novice pilots	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
Comments of	f test pilot				
	Comments	no		no	



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