Flight test report

Manufacturer Windtech Paragliders
Address Francisco Rodríguez, 7
33201 GIJON - Asturias

Spain, PO Box 269 33280

Representive None
Type of glider Cargo 39
Trimmer not available

 Certification number
 PG 091.2007

 Date of flight test
 19/07/2007

 Place of test
 Villeneuve



Classification B

Test PilotAlain ZollerClaude ThurnheerHarnessSol - Slider LAdvance Bi-proTotal weight in flight125 kg190 kg

		Min waight		May weight	
1. Inflation/T	ake-off	Min weight		Max weight	
1	Rising behaviour	Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
	Special take off technique required			No	Α
2. Landing					
	Special landing technique required	No	Α	No	Α
3. Speed in s	straight flight				
	Trim speed more than 30 km/h		Α	Yes	Α
	Speed range using the controls larger than 10 km/h			Yes	A
4 Control m	Minimum speed	Less than 25 km/h	Α	25 km/h to 30 km/h	В
4. Control m	Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	not available	0	not available	0
	Max. weight in flight 80 kg to 100 kg	The a randore	Ŭ	The aranabio	ŭ
	Symmetric control pressure/travel	not available	0	not available	0
	Max. weight in flight greater than 100 kg				
	Symmetric control pressure/travel	Increasing, Greater than 65 cm	Α	Increasing, Greater than 65 cm	Α
5. Pitch stab	ility exiting accelerated flight				
	Dive forward angle on exit	not available		not available	0
o Birele erele	Collapse occurs	not available	0	not available	0
6. Pitch stab	ility operating controls during accelerated flight	not evelleble	_	and evallable	0
7 Poll stabil	Collapse occurs lity and damping	not available	U	not available	0
Non Stabil	Oscillations	Reducing	Α	Reducing	Α
8. Stability in	n gentle spirals	···			,,
	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour	r in a steeply banked turn	•		•	
	Sink rate after two turns	12 m/s to 14 m/s	Α	More than 14 m/s	В
10. Symmetr	ric front collapse				
	Entry		Α	Rocking back less than 45°	Α
	Recovery	·	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	· · · · · · ·		Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No	Α	No	Α
	With accelerator				
	Entry	not available	0	not available	0
	Recovery	not available	0	not available	0
	Dive forward angle on exit Cascade occurs	not available not available	0	not available not available	0
11 Exiting d	leep stall (parachutal stall)	TIOL available	U	TIOL available	U
The Exiting G	Deep stall achieved	Yes	Α	Yes	Α
	Recovery			Spontaneous in less than 3 s	Α
	Dive forward angle on exit			Dive forward 0°to 30°	Α
	Change of course		Α	Changing course less than 45°	Α
	Cascade occurs		Α	No	Α
12. High ang	le of attack recovery				
	Recovery	Spontaneous in less than 3 s	Α	not available	0
	Cascade occurs	No	Α	not available	0
13. Recovery	y from a developed full stall	D: (1000: 000		D: (1999) 999	_
	Dive forward angle on exit			Dive forward 30°to 60°	В
	Collapse	•		No collapse	Α
	Cascade occurs (other than collapse)			No	A
	Rocking back		A	Less than 45° Most line tight	A
14. Asymme	Line tension	Most line tight	Α	Most line tight	Α
14. Asymme	With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15°	Α	Less than 90°, Dive or roll angle 0° to 15°	Α
	Re-inflation behaviour		A	Spontaneous re-inflation	A
	Total change of course		A	Less than 360°	A
	Collapse on the opposite side occurs			No	A
	Twist occurs		Α	No	Α
	Cascade occurs			No	Α
	With 75% collapse-Maximum dive forward or roll angle				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	90° to 180°, Dive or roll angle 15° to 45°	В
	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			No	Α
	Cascade occurs		Α	No	Α
	With 50% collapse and accelerator-Maximum dive forward of				
	Change of course until re-inflation	not available		not available	0
	Re-inflation behaviour	not available		not available	0
	Total change of course	not available		not available	0
	Collapse on the opposite side occurs	not available	0	not available	0

	Twist occurs	not available	0	not available	0
	Cascade occurs	not available	0	not available	0
	With 75% collapse and accelerator-Maximum dive forward of	r roll angle			
	Change of course until re-inflation	not available	0	not available	0
	Re-inflation behaviour	not available	0	not available	0
	Total change of course	not available	0	not available	0
	Collapse on the opposite side occurs	not available	0	not available	0
	Twist occurs	not available		not available	0
	Cascade occurs	not available	0		0
15. Direction	al control with a maintained asymmetric collapse	not available	U	not available	U
	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	A
16 Trim sno	ed spin tendency	Wore than 50 % of the symmetric control travel		More than 50 % of the symmetric control traver	
10. IIIIII spe	Spin occurs	No	۸	No	Α
17 Low spec	ed spin tendency	110		NO	
Low spec	Spin occurs	No	Δ	No	Α
18 Pecover	r from a developed spin	INO	^	110	
io. Recovery	Spin rotation angle after release	Stops spinning in less than 90°	۸	Stone eninning in lose than 00°	۸
		No	A	Stops spinning in less than 90°	A
40 D llus st	Cascade occurs	NO .	Α	No	Α
19. B-line sta		Observe of severe less than 450		man and the Manhala	_
	Change of course before release	Change of course less than 45°		not available	0
	Behaviour before release	Remains stable with straight span	Α	not available	0
	Recovery	Spontaneous in less than 3 s		not available	0
	Dive forward angle on exit	Dive forward 0° to 30°		not available	0
	Cascade occurs	No	Α	not available	0
20. Big ears					
	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears	in accelerated flight				
	Entry procedure	not available	0	not available	0
	Behaviour during big ears	not available	0	not available	0
	Recovery	not available	0	not available	0
	Dive forward angle on exit	not available	0	not available	0
	Behaviour immediately after releasing the accelerator while	not available	0	not available	0
22. Behaviou	ır 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	Α	Less than 720°, spontaneous recovery	Α
	Sink rate when evaluating spiral stability [m/s]	15 m/s		20 m/s	
23. Alternativ	ve means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any othe	r flight procedure and/or configuration described in the us				
, 54.10	Procedure works as described	not available	0	Yes	Α
	Procedure suitable for novice pilots	not available	0		A
	Cascade occurs	not available	0		A
Comments of		10. 0.000	J		, (
Comments C	Comments	no		B-stall not possible	
	Comments	IIO		D-stail flot pussible	



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