Flight test report

ManufacturerWindtech ParaglidersAddressFrancisco Rodríguez, 733201 GIJON - Asturias

Spain, PO Box 269 33280

Representive None
Type of glider Cargo 43
Trimmer not available

 Certification number
 PG 051.2007

 Date of flight test
 29.03.07

 Place of test
 Villeneuve



Alain Zoller

240 kg

Advance - Pro 2 bi



Classification B

Test Pilot Claude Thurnheer
Harness Advance Bi-pro
Total weight in flight 140 kg

		Min weight	Max weight	
1. Inflation/Ta		wiii weigiit	wax weight	
	Rising behaviour	Smooth, easy and constant rising	. ,	Α
O Landina	Special take off technique required	No A	. No	Α
2. Landing	Special landing technique required	No A	No	Α
3. Speed in st				
	Trim speed more than 30 km/h	Yes		Α
	Speed range using the controls larger than 10 km/h	Yes A		A
4. Control mo	Minimum speed	Less than 25 km/h	Less than 25 km/h	Α
4. Control Illo	Max. weight in flight up to 80 kg			
	Symmetric control pressure/travel	not available	not available	0
	Max. weight in flight 80 kg to 100 kg	and an artifact	2	
	Symmetric control pressure/travel Max. weight in flight greater than 100 kg	not available	not available	0
	Symmetric control pressure/travel	Increasing, Greater than 65 cm	Increasing, Greater than 65 cm	Α
5. Pitch stabil	ity exiting accelerated flight			
	Dive forward angle on exit		not available not available	0
6. Pitch stabil	Collapse occurs ity operating controls during accelerated flight	not available	Tiot available	U
	Collapse occurs	not available	not available	0
7. Roll stabilit	y and damping			
8 Stability in	Oscillations gentle spirals	Reducing	Reducing	Α
o. otability III	Tendency to return to straight flight	Spontaneous exit	Spontaneous exit	Α
9. Behaviour	in a steeply banked turn	•		
	Sink rate after two turns	12 m/s to 14 m/s	12 m/s to 14 m/s	Α
10. Symmetric	c front collapse Entry	Rocking back less than 45°	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	- Control of the Cont	A
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course		Α
	Cascade occurs	No A	No No	Α
	With accelerator Entry	not available	not available	0
	Recovery		not available	0
	Dive forward angle on exit		not available	0
	Cascade occurs	not available	not available	0
11. Exiting de	ep stall (parachutal stall) Deep stall achieved	Yes	Yes	Α
	Recovery	Spontaneous in less than 3 s		A
	Dive forward angle on exit	Dive forward 0°to 30°	· ·	Α
	Change of course	Changing course less than 45° A	0 0	A
12 High angle	Cascade occurs e of attack recovery	No A	No	Α
12. High angl	Recovery	Spontaneous in less than 3 s	not available	0
	Cascade occurs	No A	not available	0
13. Recovery	from a developed full stall	Divertement 00to 000	Div. (_
	Dive forward angle on exit Collapse	Dive forward 0°to 30° No collapse		B A
	Cascade occurs (other than collapse)	No A		A
	Rocking back	Less than 45°	Less than 45°	Α
44 4	Line tension	Most line tight	Most line tight	Α
14. Asymmeti	ric collapse 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°	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	Α
	Total change of course	Less than 360° A		A
	Collapse on the opposite side occurs Twist occurs	No A	No No	A A
	Cascade occurs	No A		A
	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° Spontaneous ro inflation		В
	Re-inflation behaviour Total change of course	Spontaneous re-inflation A Less than 360° A	· ·	A A
	Collapse on the opposite side occurs	No A		A
	Twist occurs	No A		Α
	Cascade occurs	No A	. No	Α
	With 50% collapse and accelerator-Maximum dive forward or Change of course until re-inflation		not available	0
	Re-inflation behaviour		not available	0
	Total change of course	not available	not available	0
	Collapse on the opposite side occurs	not available	not available	0

	Twist occurs	not available	٥	not available	0
	Cascade occurs	not available	0		0
	With 75% collapse and accelerator-Maximum dive forward of		U	Tiot available	U
	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	0	not available	0
	Cascade occurs	not available	0	not available	0
15 Direction	al control with a maintained asymmetric collapse	not available	U	not available	U
15. Direction	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
4C Trim and	ed spin tendency	More than 50 % of the symmetric control travel	А	More than 50 % of the symmetric control travel	А
16. Trim spe	•	Na	^	Ne	^
47	Spin occurs	No	Α	No	Α
17. Low spee	ed spin tendency	Na	^	Ne	^
10 Bassier	Spin occurs / from a developed spin	No	Α	No	Α
18. Recovery		Oten a color in the land them 200		Otana animala nin taon than 000	
	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
40. D. Um 1	Cascade occurs	No	Α	No	Α
19. B-line sta		0 () () ()			_
	Change of course before release	Change of course less than 45°	Α	not available	0
	Behaviour before release	Remains stable with straight span	Α	not available	0
	Recovery	Spontaneous in less than 3 s	Α	not available	0
	Dive forward angle on exit	Dive forward 0° to 30°	Α	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	ur 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]	17 m/s		18 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				
	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		Impossible to make B-Stall lines, too hard	



Air Turquoise
Rue de la Poterlaz 6
Case postale 10
CH- 1844 Villeneuve
Switzerland
mobile: +41 79 202 52 30
Tel. no: +41 21 965 65 65
fax: +41 219 65 65 66
email: info@airturquoise.ch
homepage: www.cen.li