para-test.com paragliding by air turquoise

ADVANCE Thun AG

PG_0585.2012

AIR TURQUOISE SA certified by



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Flight test report: EN

Manufacturer

Recovery

Manalaotarei				1 0_0000.2012
Address	Uttigenstrasse 87 3600 Thun Switzerland	Date of flight test		18. 06. 2012
Representative	Kari Eisenhut	Place of test		Villeneuve
Glider model	Pi 19 (S)	Classification		С
Trimmer	no			
	•	Schalbetter Cindy		Berruex Gilles
	Harness	Sup'Air - Altiplume S		Sup'Air - Altiplume M
	Total weight in flight (kg)	50		95
1. Inflation/Take-off		Α		
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising
Special take off technique r	equired	No	А	No
2. Landing		Α		
Special landing technique re	equired	No	А	No
3. Speed in straight flight		В		
Trim speed more than 30 ki	m/h	Yes	А	Yes
Speed range using the cont	trols larger than 10 km/h	Yes	А	Yes
Minimum speed		Less than 25 km/h	А	25 km/h to 30 km/h
4. Control movement		с		
Max. weight in flight up to 80 kg				
Symmetric control pressure / travel		Increasing / 40 cm to 55 cm	С	not available
Max. weight in flight 80 kg to 100 kg				
Symmetric control pressure / travel		not available	0	Increasing / 45 cm to 60 cm
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel		not available	0	not available
5. Pitch stability exiting accelerated flight		0	0	and the line of the line
Dive forward angle on exit		not available	0	not available
Collapse occurs 6. Pitch stability operating controls during accelerated		not available 0	0	not available
flight	g controls during accelerated	0		
Collapse occurs		not available	0	not available
7. Roll stability and damping		Α		
Oscillations		Reducing	А	Reducing
8. Stability in gentle spira	ls	Α		
Tendency to return to straig	ht flight	Spontaneous exit	А	Spontaneous exit
9. Behaviour in a steeply	banked turn	В		
Sink rate after two turns		Up to 12 m/s	А	More than 14 m/s
10. Symmetric front collap	ose	В		
Entry		Rocking back less than 45°	А	Rocking back less than 45°
Recovery		Spontaneous in less than 3 s	А	Spontaneous in less than 3 s
Dive forward angle on exit /	Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 30° to 60° / Keeping course
Cascade occurs		No	А	No
With accelerator				
Entry		not available	0	not available
		and available	^	mat available

not available

Certification number

0

not available

Dive featured angle on exit / Change of equires	not available	0	not available	0
Dive forward angle on exit / Change of course Cascade occurs	not available	0	not available	0
	B	0	not available	0
11. Exiting deep stall (parachutal stall) Deep stall achieved	Yes	А	Yes	А
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°	A	Dive forward 30° to 60°	В
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
12. High angle of attack recovery	0	~	NO	~
Recovery	not available	0	not available	0
Cascade occurs	not available	0	not available	0
13. Recovery from a developed full stall	C	U		U
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	в
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Greater than 45°	c
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	B			
With 50% collapse	_			
, Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	А	Less than 90° / Dive or roll angle 15° to 45°	А
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No	A	No	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
With 75% collapse		Λ		~
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	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
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	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. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	А	Yes	А
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	А	More than 50 % of the symmetric	А
	symmetric control travel		control travel	

16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	0			
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears	0			
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
21. Big ears in accelerated flight	0			
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 maintaining big ears	not available	0	not available	0
22. Behaviour exiting a steep spiral	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	Α
Sink rate when evaluating spiral stability [m/s]	12		17	
23. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
24. Any other flight procedure and/or configuration described in the user's manual	0			
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
25. Comments of test pilot				
Comments	Light pilot under Air Turquoise supervision - Leichter Testpilot unter Aufsicht von Air Turquoise			