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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer	Advance Thun AG	Certification number	F	PG 1688.2020		
Address	Uttigenstrasse 87 3600 Thun Switzerland	Flight test		27.05.2020		
Glider model	Pi3 16	Classification	C			
Serial number	85010	Representative	٨	Michi Maurer		
Trimmer	no	Place of test		/illeneuve		
		Flace of test	V	rillerleuve		
Folding lines used	no					
Test pilot		Light pilot under Air Turquoise supervision	C	Claude Thurnheer		
Harness		Flugsau - XX-Lite	Advance - Success 4 M			
Harness to risers d	istance (cm)	40	4	44		
Distance between i	` '	40	4	44		
Total weight in flight (kg)		50	-	90		
Total weight in high	it (kg)	30	3			
1. Inflation/Take-off		A				
Rising behaviour		Smooth, easy and constant rising	A	Smooth, easy and constant rising	A	
Special take off technique	e required	No	Α	No	Α	
2. Landing		A	^	No	٨	
Special landing technique	•	No B	Α	No	Α	
3. Speed in straight flight			۸	Voo	۸	
Trim speed more than 30 km/h		Yes Yes	A A	Yes Yes	A	
Speed range using the controls larger than 10 km/h Minimum speed		Less than 25 km/h	A	25 km/h to 30 km/h	A B	
4. Control movement		C	^	25 KII/II to 30 KII/II	Ь	
	to 80 kg	Č				
Max. weight in flight up to 80 kg		Increasing / greater than 55 cm	Α	not available	0	
Symmetric control pressure / travel Max. weight in flight 80 kg to 100 kg		mercasing / greater than 55 cm	^	not available	U	
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		not available	0	Increasing / 45 cm to 60 cm	С	
		not available	Ū	moreasing / 40 om to 00 om	Ü	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	not available	0	
Pitch stability exiting accelerated flight		A				
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α	
Collapse occurs		No	Α	No	Α	
6. Pitch stability operati flight	ng controls during accelerated	Α				
Collapse occurs		No	Α	No	Α	
7. Roll stability and dam	ping	Α				
Oscillations		Reducing	Α	Reducing	Α	
8. Stability in gentle spi	rals	Α				
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	Α	
	ully developed spiral dive	Α				
Initial response of glider (Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α	
Tendency to return to stra	aight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	
Turn angle to recover nor	mal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α	
10. Symmetric front coll	apse	A				
Approximately 30 % cho	ord					
Entry		Rocking back less than 45°	Α	Rocking back less than 45°	Α	

Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping course	Α	Dive forward 0° to 30° Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	Α	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs			No	
	No	Α	NO	Α
12. High angle of attack recovery	A		On antenna and in least them O	
Recovery	Spontaneous in less than 3 s	Α.	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	C			
Dive forward angle on exit	Dive forward 60° to 90°	С	Dive forward 30° to 60°	В
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	С			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	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				
Total change of course	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
<u> </u>	Spontaneous re-inflation Less than 360°	A A	Spontaneous re-inflation Less than 360°	A A
Collapse on the opposite side occurs	•		•	
Collapse on the opposite side occurs Twist occurs	Less than 360° No (or only a small number of collapsed cells with a spontaneous	Α	Less than 360° No (or only a small number of collapsed cells with a spontaneous	Α
	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A
Twist occurs	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A
Twist occurs Cascade occurs	No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A
Twist occurs Cascade occurs Folding lines used	No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A	Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A

Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	90° to 180° / Dive or roll angle 45° to 60°	С
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
15. Directional control with a maintained asymmetric	Α			
collapse				
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	Α
16. Trim speed spin tendency	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	Α			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	Α			
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	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in 3 s to 5 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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
23. 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
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24. Comments of test pilot