AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013+A1:2021* & NfL 2-565-20

5			-			
Advance Thun AG		Certification number	PG_2012.2022			
ddress Uttigenstrasse 87 3600 Thun		Flight test		15.08.2022		
	Switzerland	Classification	E	5		
	Glider model EPSILON 10 DLS 26		_	-		
Serial number 95299		Representative		None		
	no	Place of test	\	/illeneuve		
Folding lines used	no					
Test pilot		Claude Thurnheer	A	Alexandre Jofresa		
Harness		Advance - Success 4 M	A	Advance - Success 4 M		
Harness to risers distance (cm)		43	4	43		
Distance between risers (cm) Total weight in flight (kg)		44 79		46 103		
1. Inflation/Take-off		A	•	Creatily and another rising		
Rising behaviour		Smooth, easy and constant rising	A	, , ,		
Special take off technique required		No	A	No		
2. Landing		A No	^	No		
Special landing technique required		A	A	No	1	
3. Speed in straight flight		Yes	А	Yes		
Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h		Yes	A	Yes		
Minimum speed		Less than 25 km/h		Less than 25 km/h		
4. Control movement		A	~			
Max. weight in flight up to	80 ka					
Symmetric control pressure / travel		Increasing / greater than 55 cm	А	not available	(
Max. weight in flight 80 kg		3 3 1 1 1 1				
Symmetric control pressure /	-	not available	0	not available		
Max. weight in flight greate						
Symmetric control pressure /	-	not available	0	Increasing / greater than 65 cm		
5. Pitch stability exiting ac	celerated flight	Α				
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°		
Collapse occurs		No	А	No		
6. Pitch stability operating flight	controls during accelerated	Α				
Collapse occurs		No	А	No		
7. Roll stability and dampir	ng	Α				
Oscillations		Reducing	А	Reducing		
8. Stability in gentle spirals	;	Α				
Tendency to return to straigh	t flight	Spontaneous exit	А	Spontaneous exit		
9. Behaviour exiting a fully	developed spiral dive	В				
Initial response of glider (first	t 180°)	No immediate reaction	В	Immediate reduction of rate of turn		
Tendency to return to straigh	ıt flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	4	
Turn angle to recover norma	l flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	4	
10. Symmetric front collaps	se	A				
Approximately 30 % chord						
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		

*This standard is NOT covered by accreditation D-IS-19457-01

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

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Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
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°	А	Less than 90° / Dive or roll angle 0° to 15°	А
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 (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No	А	No	А
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 symmetric control travel	А	More than 50 % of the symmetric control travel	A
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	A			
Change of course before release	Changing course less than 45°	А	Changing 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	А	No	А
20. Big ears	Α			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	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
21. Big ears in accelerated flight	А			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	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
Behaviour immediately after releasing the accelerator while maintaining big ears		•	Stable flight	А
	Stable flight	A	Stable light	~
22. Alternative means of directional control	Stable flight A	A		~
	-	A	Yes	A
22. Alternative means of directional control	A			
22. Alternative means of directional control 180° turn achievable in 20 s	A Yes	A	Yes	А
 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration 	A Yes No	A	Yes	А
 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual 	A Yes No O	A A	Yes No	A A
 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described 	A Yes No O not available	A A 0	Yes No not available	A A 0