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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Manufacturer Address	Advance Thun AG Uttigenstrasse 87 3600 Thun		Certification num Flight test	ber	PG_2358.2024 25.01.2024	
Glider model Serial number Trimmer Folding lines used	Switzerland THETA ULS 27 102976 no no		Classification Representative Place of test		B Michael Maurer Villeneuve	
Test pilot		Alexandre Jofresa		Anselm Rauh		
Harness Harness to risers distance [cm] Distance between risers [cm] Total weight in flight [kg]		Advance Thun AG Success 4 M 43 44 90		Niviuk Makan L 41 48 112		
1. Inflation/Take-off Rising behaviour		A Smooth, easy and cor	istant rising	A	Smooth, easy and constant rising	A
Special take off technique required		No A		No	A	
2. Landing Special landing technique required		A No		A	No	А
3. Speed in straight flight Trim speed more than 30 km/h		B Yes		A	Yes	A
Speed range using the controls larger than 10 km/h		Yes A		Yes	А	
Minimum speed		25 km/h to 30 km/h		В	25 km/h to 30 km/h	В
4. Control movement Max. weight in flight up to 80 kg Symmetric control pressure / travel		A not available 0		0	not available	0
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / greater than 60 cm A		not available	0	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available		0	Increasing / greater than 65 cm	A
5. Pitch stability exiting accelerated flight Dive forward angle on exit		A Dive forward less than	1 30°	A	Dive forward less than 30°	A
Collapse occurs		No		A	No	A
6. Pitch stability operating controls during accelerated flight		A				
Collapse occurs		No		A	No	А
7. Roll stability and damping Oscillations		A Reducing		A	Reducing	А
8. Stability in gentle spirals Tendency to return to straight flight		A Spontaneous exit		A	Spontaneous exit	А

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

The validation of this test report is given by the signature of the test manager on inspection certificate 91.20 Rev 07 | 04.03.2022 // ISO | 91.22 // Page 1 of 4

9. Behaviour exiting a fully developed spiral dive	В			
Initial response of glider (first 180°)	No immediate reaction	В	No immediate reaction	В
Tendency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
Turn angle to recover normal flight	720° to 1 080°, spontaneous recovery	В	720° to 1 080°, spontaneous recovery	В
10. Symmetric front collapse Approximately 30 % chord	В			
Entry	Rocking back less than 45°		Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s		Spontaneous in 3 s to 5 s	в
Dive forward angle on exit Change of course	Dive forward 0° to 30° / Keeping course		Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No A		No	A
Folding lines used	No	A	No	А
At least 50% chord Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	А
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
With accelerator				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in 3 s to 5 s	в
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	No	A
11. Exiting deep stall (parachutal stall)	A	•	Ver	•
Deep stall achieved	Yes		Yes	A
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 0° to 30°	A
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 Recovery	A Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall Dive forward angle on exit	A Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	А
Cascade occurs (other than collapses)	No	A	No	A

Rocking back	Less than 45°		Less than 45°	А
Line tension	Most lines tight		Most lines tight	A
14. Asymmetric collapse	A			
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		Spontaneous re-inflation	A
Total change of course	Less than 360°		Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)		No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No		No	А
Cascade occurs	No	A	No	A
Folding lines used	No	A	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° $$	A	Less than 90° / Dive or roll angle 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	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	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	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° $$	A	Less than 90° / Dive or roll angle 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	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	A	No	A
Cascade occurs	No	A	No	A
Folding lines used	No	A	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° $$	A	Less than 90° / Dive or roll angle 15° to 45° $$	A
Re-inflation behaviour	Spontaneous re-inflation		Spontaneous re-inflation	А
Total change of course	Less than 360°		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	A	No	A
Cascade occurs	No	A	No	A

Folding lines used	No	A	No	A
15. Directional control with a maintained	Α			
asymmetric collapse Able to keep course	Yes	A	Yes	А
' 180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	A
	More than 50 % of the symmetric control travel		More than 50 % of the symmetric control travel	A
Amount of control range between turn and stall or spin	·	A		A
16. Trim speed spin tendency Spin occurs	A No	A	No	A
17. Low speed spin tendency Spin occurs	A No	A	No	A
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in less than 90°	A
Cascade occurs	No	A	No	A
19. B-line stall	Α			
Change of course before release	Changing course less than 45°	A	Changing course less than 45°	A
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
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 0° to 30°	A
Cascade occurs	No	A	No	A
20. Big ears	В			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Spontaneous in 3 s to 5 s	A	Recovery through pilot action in less than a further 3 s	rВ
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A
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