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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

ManufacturerAdvance Thun AGAddressUttigenstrasse 87			Certification num Flight test	ber	PG_2430.2024 24.06.2024	
Glider model Serial number Trimmer	3600 Thun Switzerland SIGMA 12 DLS 26 105051 no		Classification Representative Place of test		C None Villeneuve	
Folding lines used	no					
Test pilot		Claude Thurnheer		Anselm Rauh		
Harness Harness to risers distance [cm] Distance between risers [cm]		Advance Thun AG Success 4 M 43 44			Woody Valley srl Wani Light 2 L 43 48	
Total weight in flight [kg]		92		114		
1. Inflation/Take-off Rising behaviour		B Easy rising, some pilot correction is required B		В	Easy rising, some pilot correction is required	В
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	A	
Minimum speed		25 km/h to 30 km/h B		В	25 km/h to 30 km/h	В
4. Control movement Max. weight in flight up to 80 kg		Α				
Symmetric control pressure / travel		not available		0	not available	0
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / greater than 60 cm A		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	n 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	A
7. Roll stability and damping		A		٨	Peducing	٥
Oscillations		Reducing		A	Reducing	A
8. Stability in gentle spirals Tendency to return to straight flight		A Spontaneous exit		A	Spontaneous exit	A

*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)	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
10. Symmetric front collapse Approximately 30 % chord	В			
Entry	Rocking back less than 45°		Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 s		Spontaneous in less than 3 s	A
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	А
Folding lines used	No	A	No	A
At least 50% chord Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	A
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	А
With accelerator				
Entry	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	A
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 Yes	۸	Yes	A
Deep stall achieved				
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	C Spontaneous in 3 s to 5 s	с	Spontaneous in 3 s to 5 s	С
Cascade occurs	No	A	No	А
13. Recovery from a developed full stall Dive forward angle on exit	A Dive forward 0° to 30°	A	Dive forward 0° to 30°	А
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	Νο	A

Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight		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 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 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		No	А
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
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	A
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	90° to 180° / Dive or roll angle 15° to 45°	В	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
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	А
Cascade occurs	No	A	No	A

Folding lines used	Νο	A	No	A
15. Directional control with a maintained	Α			
asymmetric collapse 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		More than 50 % of the symmetric control travel	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	В			
Spin rotation angle after release	Stops spinning in 90° to 180°		Stops spinning in 90° to 180°	В
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	А	Remains stable with straight span	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	A
Cascade occurs	No	A	No	A
20. Big ears	Α			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	A	Stable flight	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 0° to 30°	A
21. Big ears in accelerated flight	Α			
Entry procedure	Dedicated controls	A	Dedicated controls	A
Behaviour during big ears	Stable flight	А	Stable flight	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 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