AIR TURQUOISE SA | PARA-TEST.COM

Route du Pré-au-Compte 8 • CH-1844 Villeneuve • +41 (0)21 965 65 65

Advance Thun AG

test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



Certification number PG_2357.2024

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

Manuacturei	Advance Thun AG		Certification number	UCI	PG_2337.2024	
Address	Uttigenstrasse 87		Flight test		26.01.2024	
	3600 Thun					
	Switzerland					
Glider model	THETA ULS 25		Classification		В	
Serial number	102721		Representative		None	
Trimmer	no		Place of test		Villeneuve	
Folding lines used	no					
•						
Test pilot		Claude Thurn	heer		Alexandre Jofresa	
•						
Harnocc		Advance Thur	AC Success 4 M		Advance Thus AC Success 4 M	ı
Harness			Advance Thun AG Success 4 M		Advance Thun AG Success 4 M	
Harness to risers di		43			43	
Distance between ri		43			44	
Total weight in fligh	it [kg]	78			99	
1. Inflation/Take-off		A				
Rising behaviour		Smooth, easy and co	nstant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	required	No		Α	No	Α
2. Landing		A				
Special landing technique	required	No		Α	No	Α
3. Speed in straight fligh	t	В				
Trim speed more than 30	km/h	Yes		Α	Yes	Α
Speed range using the cor	ntrole larger than 10 km/h	Yes		Α	Yes	Α
Speed range using the col	THOS larger than 10 km/n	103		^	103	Α
Minimum speed		Less than 25 km/h		Α	25 km/h to 30 km/h	В
4. Control movement		A				
Max. weight in flight up t	to 80 kg	^				
Symmetric control pressur	_	Increasing / greater th	nan 55 cm	Α	not available	0
Symmetric control pressur	e / liavei	morodomy groater a	.a 00 0		not a valiable	ŭ
Max. weight in flight 80 k	κg to 100 kg					
Symmetric control pressur	re / travel	not available		0	Increasing / greater than 60 cm	Α
Max. weight in flight grea	=					
Symmetric control pressure / travel		not available		0	not available	0
5. Pitch stability exiting a	accelerated flight	Α				
Dive forward angle on exit		Dive forward less that	n 30°	Α	Dive forward less than 30°	Α
ŭ						
Collapse occurs		No		Α	No	Α
C Ditab atability amounting	an a antinala disuluan	Δ				
Pitch stability operatir accelerated flight	ig controls during	A				
Collapse occurs		No		Α	No	Α
·						
7. Roll stability and damping		Α				
Oscillations		Reducing		Α	Reducing	Α
8. Stability in gentle spire	als	A				
Tendency to return to straight flight		Spontaneous exit		Α	Spontaneous exit	Α
. Shashey to rotain to strai	·g··· ···g···				•	•
						_

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)	Α	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°	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	Α	No	Α
At least 50% chord	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Entry	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 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No No	A	No.	A
Folding lines used	No	Α	No	A
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α		Α
Folding lines used	No	Α	No	Α
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	Α	No	Α
12. High angle of attack recovery	A Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Recovery	Spontaneous in less than 3 s	A	No	A
Cascade occurs		A	110	А
13. Recovery from a developed full stall Dive forward angle on exit	A Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
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	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°	Α	Less than 90° / Dive or roll angle 0° to 15°	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	Α	No	Α
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	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	Α	No	Α
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°	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	Α	No	Α
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	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	Α	No	Α
Able to keep course Yes A Yes A 180" turn awwy from the collapsed side possible in 10 a Yes A Yes A Amount of control range between turn and stall or spin Mare than 50 % of the symmetric control travel A No. A No. A 16. Trim speed spin tendency Spin occurs A A A No. A No. A 17. Low speed spin tendency Spin rodation angle after release B B B B A No. A A No. A A A No.		A			
Amount of control range between turn and stall or spin 16. Trim speed spin tendency No No A No A No A 17. Low speed spin tendency A No No A No No A 17. Low speed spin tendency Spin occurs No No A No No A No No A 18. Recovery from a developed spin B Spin rotation angle after release No No A No No A No No A 19. B-line stall Change of course before release Renals stalle with straight spen A Remains stalled with straight spen A Remains stalled with straight spen A No No A 19. B-line stall Change of course before release Renals stalled with straight spen A Remains stalled with straight		Yes	Α	Yes	Α
16. Frim speed spin tendency Spin occurs No No A	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Spin occurs No A 17. Low speed spin tendency Spin occurs No A No A No A No A No A No A 18. Recovery from a developed spin B Spin rotation angle after release Stops spinning in 90° to 180° B Stops spinning in less than 90° A No A N	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
Spin occurs No No A No No A No A No A No A No A Spin occurs No No A No A No A No A No A Spin occurs No A Spin occurs No A No A No A No A No A Spin occurs No A Spin occurs No A No A No A No A Spin occurs A Spin occurs No A	16. Trim speed spin tendency	A			
Spin occurs No A No A No A 18. Recovery from a developed spin Spin rotation angle after release Stops spinning in 90° to 180° B Stops spinning in 90° to 180° B Stops spinning in 90° to 180° B Stops spinning in less than 90° A A No A 19. B-line stall Change of course before release Change of course before release Change of course before release Remains stable with straight span A Recovery Spontaneous in less than 45° 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 of 10 30° A No A 20. Big ears A Entry procedure Dedicated controls A Behaviour during big ears Stable flight A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward of 10 30° A Dive forward of 10 30° A Dive forward of 10 30° A Stable flight A 21. Big ears in accelerated flight Entry procedure Dedicated controls Dedicated controls A Behaviour during big ears Stable flight A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward of 10 30° A Stable flight A Recovery Spontaneous in less than 3 s A Dive forward of 10 30° A Stable flight A Recovery Spontaneous in less than 3 s A Dive forward of 10 30° A Dive forward of 10 30° A Dive forward of 10 30° A Spontaneous in 10 to 10 10 10 10 10 10 10 10 10 10 10 10 10	Spin occurs	No	Α	No	Α
Spin rotation angle after release Stops spinning in sor to 180° A Cascade occurs No A A No A No A No A No A No A No A			Α	No	Α
Cascade occurs No A 19. B-line stall A 19. Dive forward or to 30° A 19. B-line stall A 19. B-li	18. Recovery from a developed spin	В			
A Change of course before release Remains stable with straight span A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or lo 30° A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Stable flight A Dedicated controls A Dive forward or lo 30° A Dive forward	Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	Α
Changing course before release Changing course less than 45° A Remains stable with straight span A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward on to 30° A Dive forward on to 30° A No A No A No A No A No A Dedicated controls A Dedicated controls A Stable flight A Stable flight A Dive forward on to 30° A Dive forward on to 30° A Dive forward on to 30° A Dive forward on the stable flight A Dive forward on to 30° A Stable flight A	Cascade occurs	No	Α	No	Α
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 Spontaneous in less than 3 s A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Stable flight A Dive forward 0° to 30° A Di					
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Stable flight A Dive forward 0° to 30° A Dive forw	Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A No	Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	Α
Cascade occurs No A 20. Big ears Entry procedure Dedicated controls A Stable flight A Stable flight A Dive forward angle on exit Dive forward 0° to 30° Dedicated controls A Dive forward 0° to 30° Dive forward on to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Recovery Spontaneous in less than 3 s A Stable flight A Stable flight A Stable flight A Stable flight A Dive forward 0° to 30° A Stable flight A Stable flight A Stable flight A Dive forward 0° to 30° A Dive f	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
20. Big ears Entry procedure Dedicated controls A Dedicated controls A Stable flight A Dive forward or to 30° A Dedicated controls A Stable flight A Stable flight A Stable flight A Dive forward or to 30° A D	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Entry procedure Dedicated controls A Dedicated controls A Stable flight A Dive forward on the stable flight A Dive forward on the stable flight A Dedicated controls A	Cascade occurs	No	Α	No	Α
Behaviour during big ears Stable flight A Stable flight A Spontaneous in less than 3 s A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Dive forward 0° to 30° A Dive forward	_				
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Stable flight A Stable flight A Spontaneous in less than 3 s A Spontaneous in 3 s to 5 s A Dive forward angle on exit Dive forward 0° to 30° A Div	Entry procedure	Dedicated controls	А	Dedicated controls	А
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A Dedicated controls A Stable flight A Stable flight A Stable flight A Dive forward or to 30° A Dive	Behaviour during big ears	Stable flight	Α	Stable flight	Α
21. Big ears in accelerated flight Entry procedure Dedicated controls A Stable flight A Stable flight A Recovery Spontaneous in less than 3 s A Spontaneous in 3 s to 5 s A Dive forward angle on exit Dive forward 0° to 30° A Dive forward or to 30° A Stable flight A A Stable flight A Dive forward or to 30° A A A A Dive forward or to 30° A A A A Dive forward or to 30° A A A A Dive forward or to 30° A A A A A Behaviour immediately after releasing the accelerator A Behaviour immediately after releasing the accelerator A A Behaviour immediately after releasing the accelerator A Behaviour immediately after releasing the accele	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Entry procedure Dedicated controls A Dedicated controls A Stable flight A Sta	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour during big ears Stable flight A Stable flight A Stable flight A Spontaneous in less than 3 s A Spontaneous in 3 s to 5 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 Pres A Stall or spin occurs No A No A No A No A No A Procedure suitable for novice pilots Not available O not available O not available O not available O not available					
Recovery Spontaneous in less than 3 s A Spontaneous in 3 s to 5 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 22. Alternative means of directional control A 180° turn achievable in 20 s Yes A Yes A Stall or spin occurs No A No A No A Procedure and/or configuration described in the user's manual Procedure works as described not available 0 not available 0 not available 0 not available	Entry procedure	Dedicated controls	А	Dedicated controls	А
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30° A Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Yes A Yes A Stable flight A Stable flight A Stable flight A Yes A Pes A Pes A Pes Procedure works as described No A No O not available	Behaviour during big ears	Stable flight	Α	Stable flight	Α
Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s No A Stall or spin occurs No A No A No A 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available not available 0 not available 0 not available 0	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 s	Α
while maintaining big ears 22. Alternative means of directional control A 180° turn achievable in 20 s Yes A Stall or spin occurs No A No A 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0 not available 0 not available 0 not available 0	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
180° turn achievable in 20 s Yes A Yes A Stall or spin occurs No No A No A 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0		Stable flight	Α	Stable flight	Α
Stall or spin occurs No A No A No A 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0 not available 0 not available 0 not available 0				Voc	^
23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described not available 0 not available 0 not available 0 Procedure suitable for novice pilots not available 0 not available 0	180° turn achievable in 20 s	168	А	res	А
configuration described in the user's manual Procedure works as described not available 0 not available 0 Procedure suitable for novice pilots not available 0 not available 0 O not available 0	Stall or spin occurs	No	Α	No	Α
Procedure suitable for novice pilots not available 0 not available 0	23. Any other flight procedure and/or configuration described in the user's manual	0			
Troccadio callabio for horizo piloto	Procedure works as described	not available	0	not available	0
Cascade occurs 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