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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



Certification number PG_2526.2025

Flight test report: EN 926-2:2013+A1:2021 and NfL 2024-2-785

Swing Flugsportgeräte GmbH

Address	An der Leiten 4 82290 Landsberied	ате Стрн	Flight test	Jei	20.02.2025 20.02.2025	
Glider model Serial number Trimmer Folding lines used	Germany NYRA RS L 99458 no no		Classification Representative Place of test		B None Villeneuve	
Test pilot		Alexandre Jofresa		Anselm Rauh		
Harness Harness to risers dis Distance between ris		Supair s.a.s. <i>A</i> 43 44	ALTIRANDO M		Woody Valley srl NAOS XL 45 48	
Total weight in flight	t [kg]	95			120	
1. Inflation/Take-off Rising behaviour		A Smooth, easy and con	nstant rising	Α	Smooth, easy and constant rising	Α
Special take off technique required		No		Α	No	Α
2. Landing Special landing technique	required	A No		Α	No	Α
3. Speed in straight flight Trim speed more than 30 km/h		B Yes		Α	Yes	Α
Speed range using the controls larger than 10 km/h		Yes		Α	Yes	Α
Minimum speed		Less than 25 km/h		Α	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	not available	0
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / greater th	nan 60 cm	Α	not available	0
Max. weight in flight 80 kg to 100 kg		not available		0	Increasing / greater than 65 cm	Α
5. Pitch stability exiting a Dive forward angle on exit		A Dive forward less than	n 30°	Α	Dive forward less than 30°	А
Collapse occurs		No		Α	No	Α
6. Pitch stability operating accelerated flight	g controls during	A			N.	
Collapse occurs		No		Α	No	A
7. Roll stability and damp Oscillations	ping	A Reducing		Α	Reducing	Α
8. Stability in gentle spiral Tendency to return to strain		A Spontaneous exit		Α	Spontaneous exit	Α

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)	Α
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	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	Dealling health and the AFO		Dealise heal has the AFO	
Entry	Rocking back less than 45°	A	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	A	Dive forward 0° to 30° / Keeping course	Α .
Cascade occurs	No	Α .	No	Α .
Folding lines used	No	Α	No	Α
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 3 s to 5 s	В
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
11. Exiting deep stall (parachutal stall)	A Yes	٨	Yes	Α
Deep stall achieved	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Recovery			Dive forward 0° to 30°	
Dive forward angle on exit	Dive forward 0° to 30°			A
Change of course	Changing course less than 45°		Changing course less than 45°	Α .
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery Recovery	A Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs No		Α	No	Α
13. Recovery from a developed full stall	A			
Dive forward angle on exit	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 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				
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	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

S.Directional control with amintained asymmetric collegance side possible in 10 s Yes A Yes A Yes A 100° turn away from the collapsed side possible in 10 s Yes A Yes A Yes A A A A A A Yes A A A A A A A A A	Folding lines used	No	Α	No	Α
Able to keep course Yes A Yes A Yes A Yes A 100* turn away from the collapsed side possible in 10 s Where than 50 % of the symmetric counted travel A TE. Trim speed spin tendency A No TE. Trim speed spin tendency A No TE. Trim speed spin tendency A No TE. Low speed spin tendency A		A			
Amount of control range between turn and stall or spin 16. Trim speed spin tendency Spin occurs No No A		Yes	Α	Yes	Α
16. Trim speed spin tendency Spin occurs No A	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Spin occurs No A No	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
No	16. Trim speed spin tendency	Α			
Spin occurs No 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 45" a Stops sp	Spin occurs	No	Α	No	Α
Spin rotation angle after release No No A Stops spinning in less than 50° A Stops spinning in less than 50° A Stops spinning in less than 50° A A No No A A No No A A No No No A A No No No No A A Stops spinning in less than 45° A Behaviour before release A Remains stable with straight span A Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward or to 30° A No			Α	No	А
Cascade occurs No No A A 19. B-line stall A Change of course before release A Remains stable with straight span A Recovery Spontaneous in leas than 3 s No No A Recovery Spontaneous in leas than 3 s No No A Dive forward angle on exit Cascade occurs No Dive forward 0° to 30° A Dive forward on the straight span A Behaviour during big ears B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B 3 s Dive forward angle on exit Dive forward or to 30° A Recovery Recovery through pilot action in less than a further B 3 s Dive forward angle on exit Dive forward or to 30° A Recovery Recovery through pilot action in less than a further B 3 s Dive forward angle on exit B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B 3 s Dive forward angle on exit B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B 3 s Dive forward angle on exit B B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B 3 s B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B B B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B B B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B B B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B B B Entry procedure Dedicated controls A Recovery Recovery through pilot action in less than a further B B Size in gift A Dive forward 0° to 30° A Div	18. Recovery from a developed spin	A			
Table Stable Stable Change of course before release Change of course before release Remains stable with straight span Recovery Spontaneous in less than 45° A Remains stable with straight span A Recovery Spontaneous in less than 3 s A Dive forward or to 30° A Stable flight Dedicated controls A Dedicated controls A Stable flight A Stable flight A Stable flight A Dive forward or to 30° A Dive forward or to 30° A Stable flight A Stab	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Change of course before release Remains stable with straight span Recovery Spontaneous in less than 3 s Recovery Spontaneous in less than 3 s Recovery Spontaneous in less than 3 s Recovery Recovery Remains stable with straight span A Recovery Spontaneous in less than 3 s A Dive forward dngle on exit Dive forward 0° to 30° A Dive forward of to 30° A Dive forward of to 30° A Recovery Recov	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 Dive forward 0° to 30° A Dive forward 0° t					
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A Dive forward 0" to 30" A No A 20. Big ears Entry procedure Dedicated controls A Dive forward 0" to 30" A Dive forward 0" t	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° No A Dive forward 0° to 30° No A No A No A No A No A A Dedicated controls A Behaviour during big ears B Entry procedure Recovery through pilot action in less than a further B 3 s Dive forward angle on exit Dive forward 0° to 30° A Behaviour during big ears Recovery through pilot action in less than a further B 3 s Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Behaviour during big ears Stable flight B Entry procedure Dedicated controls A Behaviour during big ears Stable flight Recovery through pilot action in less than a further B 3 s Recovery Recovery through pilot action in less than a further B Behaviour during big ears Stable flight A Recovery Recovery through pilot action in less than a further B Behaviour during big ears Stable flight A Behaviour during big ears Stable flight A Recovery Recovery through pilot action in less than a further B Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control A Yes Xes Stall or spin occurs No No No No No No No No No N	Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	Α
Cascade occurs No No A No No A No A No A A No A A A No A A A No A A A A	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 Dive forward 0° to 30° A Dedicated controls A Dive forward 0° to 30° A Dive forward 0° to 30° A Dedicated controls A Stable flight B SSTAD STAD STAD STAD STAD STAD STAD STA	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 or to 30° A Dive forward 0°	Cascade occurs	No	Α	No	Α
Behaviour during big ears Stable flight Recovery Recovery through pilot action in less than a further 3 s Sable flight Dive forward on to 30° to 30° A Dive forward on to 30° A 21. Big ears in accelerated flight Entry procedure Dedicated controls Behaviour during big ears Stable flight A Dedicated controls A Dedicated controls A Dedicated controls A Stable flight A Stable	_				
Recovery Recovery through pilot action in less than a further B 3 s S S S S S S S S S S S S S S S S S S	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Dive forward angle on exit Dive forward 0° to 30° Dedicated controls A Stable flight A Stable flight A Dive forward 0° to 30° A Dive forward angle on exit Dive forward 0° to 30° Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 3	Behaviour during big ears	Stable flight	Α	Stable flight	Α
21. Big ears in accelerated flight Entry procedure Dedicated controls A Dedicated controls A Dedicated controls A Dedicated controls A Behaviour during big ears Stable flight A Stable flight A Stable flight A Stable flight A Dive forward angle on exit Dive forward 0° to 30° A Stable flight A Dive forward 0° to 30° A Dive forward 0	Recovery		В		r B
Entry procedure Dedicated controls A Dedicated controls A Stable flight A Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A Stable flight A Stabl	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour during big ears Stable flight A Dive forward on the second of the s	21. Big ears in accelerated flight				
Recovery	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
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 180° turn achievable in 20 s Yes A Yes A Stable flight A Stable flight A Stable flight A Stable flight A Pres A Pres A Pres A Pres A Pres Procedure works as described No A No A No A No A No Procedure works as described Not available O not available O not available O Procedure suitable for novice pilots	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 not available 0	Recovery		В	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 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 not available 0 not available 0 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				Ver	
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	res	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 loi nonce 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