AIR TURQUOISE SA | PARA-TEST.COM

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

test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



Certification number PG_2454.2024

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

Swing Flugsportgeräte GmbH

Manulaciurei	Swing Flugsportgera	ate GmbH	Certification numb	Jei	PG_2454.2024	
Address An der Leiten 4			Flight test		18.09.2024	
	82290 Landsberied		-			
	Germany					
Glider model	NYRA RS M		Classification		В	
Serial number	99449		Representative		None	
Trimmer	no		Place of test		Villeneuve	
Folding lines used	no					
ŭ						
Test pilot		Claude Thurnh	neer		Anselm Rauh	
Harness		Advance Thun	AG Success 4 M		Woody Valley srl Wani Light 2 L	
Harness to risers di	stance [cm]	43			43	
Distance between ri		44			48	
	• •					
Total weight in fligh	ıt [kg]	85			105	
	- 0.					
1. Inflation/Take-off		B Easy rising, some pilot	t correction is required	D	Smooth, easy and constant rising	۸
Rising behaviour		Easy rising, some pilot	correction is required	В	Smooth, easy and constant rising	Α
Special take off technique	required	No		Α	No	Α
		•				
2. Landing		A		^	Ne	
Special landing technique required		No		Α	No	Α
3. Speed in straight flight		В				
Trim speed more than 30 km/h		Yes		Α	Yes	Α
		Voo		۸	Voc	^
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 mayors		A				
4. Control movement		7				
Max. weight in flight up to 80 kg		not available		0	not available	0
Symmetric control pressure / travel		2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2		-		-
Max. weight in flight 80 kg to 100 kg						
Symmetric control pressure / travel		Increasing / greater the	an 60 cm	Α	not available	0
Max. weight in flight grea	ater than 100 kg					
Symmetric control pressure / travel		not available		0	Increasing / greater than 65 cm	Α
27eare contact procedur						
5. Pitch stability exiting accelerated flight		Α				
Dive forward angle on exit		Dive forward less than	30°	Α	Dive forward less than 30°	Α
Collapse occurs		No		Α	No	Α
30						
6. Pitch stability operating controls during accelerated flight		Α				
Collapse occurs		No		Α	No	Α
7. Roll stability and dam	pina	Α				
Oscillations		Reducing		Α	Reducing	Α
8. Stability in gentle spirals		Α				
Tendency to return to strain	ight flight	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)	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	A			
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 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
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 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
11. Exiting deep stall (parachutal stall) Deep stall achieved	A Yes	Δ	Yes	Α
Recovery	Spontaneous in less than 3 s		Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	Α		Α
Change of course	Changing course less than 45°	Α		Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A			
Recovery	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 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 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° A		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	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
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

Folding lines used	No	Α	No	Α
15. Directional control with a maintained asymmetric collapse	A			
Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
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
16. Trim speed spin tendency	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency Spin occurs	A No	Α	No	Α
18. Recovery from a developed spin	B Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	Α
Spin rotation angle after release	Stops spirining in 30 to 160	Ь	Stops spiriting in less than 90	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Recovery through pilot action in less than a further 3 $\ensuremath{\text{s}}$		Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°		Dive forward 0° to 30°	Α
21. Big ears in accelerated flight	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in 3 s to 5 s	Α	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
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