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test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Manufacturer



Certification number PG 2457.2024

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

Niviuk Gliders / Air Games S.L.

Manadataro	MINIUK GIIGEIS / AII C	Jailles S.L.	Octunoation name	JCI	F G_2431.2024	
Address	C. Del Ter, 6 Nave D		Flight test		18.09.2024	
	17165 La Cellera de 7	Ter Girona				
	Spain		01 161 11		_	
Glider model	Artik 7 P 24		Classification		C	
Serial number	ARTIK7P24324		Representative Place of test		None	
Trimmer	no		Place of test		Villeneuve	
Folding lines used	no					
Test pilot		Claude Thurnl	heer		Alexandre Jofresa	
Harness		Advance Thur	n AG Success 4 M		Advance Thun AG Success 4 M	1
Harness to risers di	stance [cm]	43		43		
Distance between ri		44		48		
Total weight in fligh	t [kg]	85			105	
1. Inflation/Take-off		В				
Rising behaviour		Easy rising, some pilo	ot correction is required	В	Easy rising, some pilot correction is required	В
Special take off technique	required	No		Α	No	Α
2. Landing		Α				
Special landing technique	required	No		Α	No	Α
2 Chand in attraight flight	•	A				
3. Speed in straight flight Trim speed more than 30 km/h		Yes		Α	Yes	Α
Thin speed more than 30 km/n						
Speed range using the controls larger than 10 km/h		Yes		Α	Yes	Α
Minimum speed		Less than 25 km/h		Α	Less than 25 km/h	Α
4. Control movement		С				
Max. weight in flight up t				0	and an effective	•
Symmetric control pressure / travel		not available		0	not available	0
Max. weight in flight 80 k	g to 100 kg					
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / 45 cm to 60 cm C		not available	0	
Max. weight in flight greater than 100 kg		not available		0	Increasing / 50 cm to 65 cm	С
Symmetric control pressure	e / traver	not available		U	increasing / 30 cm to 03 cm	C
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
Collapse occurs		No		Α	No	Α
Collapse occurs		110		,,		,,
6. Pitch stability operating controls during accelerated flight		Α				
Collapse occurs		No		Α	No	Α
7. Roll stability and damp	oing	A				
Oscillations		Reducing		Α	Reducing	Α
0.04-1-1111	-1-	A				
Stability in gentle spirals Tendency to return to straight flight		A Spontaneous exit		Α	Spontaneous exit	Α
rendericy to return to strai	grit nigrit	oponianeous exit		^	оронканевиз ели	^

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	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 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
At least 50% chord Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	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
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)	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		No	A
Cascade occurs		А	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 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	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
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	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
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°	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

1.50 Procession of control with amaintained symmetric collegipse and succession of the procession of control tamps between turn and stall or spin of the procession of control tamps between turn and stall or spin of the procession of control tamps between turn and stall or spin of the procession of control tamps between turn and stall or spin of the procession of the	Folding lines used	No	Α	No	Α
A		A			
Amount of control range between turn and stall or spin 16. Trim speed spin tendency Spin occurs No		Yes	Α	Yes	Α
1.5. Frim speed spin tendency	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
Spin occurs No A No A 17. Low speed spin tendency A A No A 18. Recovery from a developed spin B Suppose spinning in 60° to 180° B Suppose spinning in 60° to 180° B Suppose spinning in 60° to 180° A 19. B-line stall 0 A No A No A 19. B-line stall 0 Total available 0 No A No A 19. B-line stall 0 Total available 0 No A No A Behaviour before release not available 0 not available 0 No A No <td>Amount of control range between turn and stall or spin</td> <td>More than 50 % of the symmetric control travel</td> <td>Α</td> <td>More than 50 % of the symmetric control travel</td> <td>Α</td>	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 No A Spin rotation angle after release Stock spinning in 60° to 180° to	Spin occurs	No	Α	No	Α
Spin rotation angle after release No No A No No A No No A No A No No No A No			Α	No	A
Spin rotation angle after release No No A No No A No No A No A No No No A No	18. Pacovory from a developed spin	В			
The Balling stall Change of course before release not available not available 0 not available			В	Stops spinning in less than 90°	Α
Change of course before release not available 0 not available	Cascade occurs	No	Α	No	Α
Behaviour before release not available not not available					
Recovery not available 0 not a	Change of course before release	not available	0	not available	0
Dive forward angle on exit not available 0 not	Behaviour before release	not available	0	not available	0
Cascade occurs not available not available 0 n	Recovery	not available	0	not available	0
20. Big ears Entry procedure Dedicated controls A Dedicated controls A Stable flight B Stable flight B Stable flight A Stable flight A Stable flight B Stable flight B Stable flight A Stable	Dive forward angle on exit	not available	0	not available	0
Entry procedure Behaviour during big ears Stable flight Spontaneous in less than 3 s Dive forward angle on exit Dive forward or to 30° Dedicated controls A Recovery through pilot action in less than a further B 3 s Behaviour during big ears Dive forward angle on exit Dive forward or to 30° Dedicated controls A Dedica	Cascade occurs	not available	0	not available	0
Behaviour during big ears Stable flight A Stable flight A Recovery A Spontaneous in less than 3 s Dive forward on to 30° to 30° A Dive forward on to 30° A Dive forward on to 30° A Dive forward on to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Dive forward on to 30° A Stable flight A Dedicated controls A Dive forward on to 30° A Dedicated controls A Dedicated controls A Dedicated controls A Dive forward on to 30° A Dedicated controls A Dedicated controls A Dive forward on to 30° A Dedicated controls A Dive forward on to 30° A Dedicated controls A Dive forward on to 30° A Dive forward on to	_				
Recovery Spontaneous in less than 3 s A 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	А
Dive forward angle on exit Dive forward 0° to 30° B Entry procedure Dedicated controls A Dive forward 0° to 30° A Dedicated controls A Recovery Recovery through pilot action in less than a further B 3 s S s Dive forward angle on exit Dive forward 0° to 30° Dive forward o° to 30° Dive forward angle on exit Dive forward 0° to 30° Dive forward o° to 30°	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 Stable flight A Stable flight A Dive forward angle on exit Dive forward on to 30 A	Recovery	Spontaneous in less than 3 s	Α		r B
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 Dive forward on the same and further B 3 s s s a s a s a s a s a s a s a s a s	21. Big ears in accelerated flight				
Recovery Recovery through pilot action in less than a further B 3 s Recovery through pilot action in less than a further B 3 s S Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° Dive forward 0°	Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Dive forward angle on exit Dive forward 0° to 30° A Stable flight A	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 A 180° turn achievable in 20 s No No A Stable flight A Yes A Yes A Stable flight A Pres A Pres A No A Pres A No A Procedure works as described Not available Not available O Not available O Not available O Not available O O O O O O O O O O O O O	Recovery		В		r B
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	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 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 o not available					
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	Yes	Α	Yes	Α
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 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			
The second of the time priories	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