AIR TURQUOISE SA | PARA-TEST.COM

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

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & NfL 2-565-20

Manufacturer Niviuk Gliders / Air Games S.L.		Certification number	PG_1835.2021		
Address	C. Del Ter, 6 Nave D 17165 La Cellera de Ter Girona Spain	Flight test	1	6.06.2021	
Glider model Kode P 16		Classification	C	С	
Serial number TOYOK416V1		Representative	Ν	None	
Trimmer	no	Place of test	\	/illeneuve	
Folding lines used	no	. 1900 0. 1001			
Test pilot		Light pilot under Air Turquoise supervision	C	Claude Thurnheer	
Harness		Flugsau - XX-Lite	Α	Advance - Success 4 M	
Harness to risers distance (cm)		40	4	44	
Distance between risers (cm)		40	-	44 44	
Total weight in flight (kg)			-		
i otai weight in filgr	it (kg)	45	9	0	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	A	Smooth, easy and constant rising	A
Special take off technique required		No	Α	No	Α
2. Landing		A		N	
Special landing technique required		No	Α	No	Α
3. Speed in straight flight		B	۸	Vaa	^
Trim speed more than 30 km/h		Yes Yes	Α	Yes Yes	A
Speed range using the controls larger than 10 km/h		Less than 25 km/h	A A	25 km/h to 30 km/h	A B
Minimum speed 4. Control movement		A	^	23 KIIWII to 30 KIIWII	Ь
	to 80 kg	^			
Max. weight in flight up to 80 kg		Increasing / greater than 55 cm	Δ	Increasing / greater than 55 cm	Α
Symmetric control pressure / travel Max. weight in flight 80 kg to 100 kg		moreasing / greater than 55 sm	,,	moreasing / greater than 60 cm	,,
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight greater than 100 kg		not available	Ŭ	not available	Ŭ
Symmetric control pressure / travel		not available	0	not available	0
5. Pitch stability exiting		A			
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operati flight	ng controls during accelerated	Α			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping		Α			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spirals		Α			
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
	Illy developed spiral dive	Α			
Initial response of glider (Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
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	Less than 720°, spontaneous recovery	Α
10. Symmetric front coll	apse	Α			

Approximately 30 % 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
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)	Α			
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	Α			
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	С			
			DI 6 1000 1 000	_
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 60° to 90°	С
Dive forward angle on exit Collapse	Dive forward 0° to 30° No collapse	A A	No collapse	A
Collapse	No collapse	Α	No collapse	Α
Collapse Cascade occurs (other than collapses)	No collapse No	A A A	No collapse No	A A
Collapse Cascade occurs (other than collapses) Rocking back	No collapse No Less than 45°	A A A	No collapse No Less than 45°	A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension	No collapse No Less than 45° Most lines tight	A A A	No collapse No Less than 45°	A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse	No collapse No Less than 45° Most lines tight	A A A	No collapse No Less than 45°	A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle	A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle	A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15°	A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15°	A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation	A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45°	A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Collapse than 90° / Dive or roll angle 0° to 15°	A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Spontaneous re-inflation	A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45°	A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Collapse than 90° / Dive or roll angle 0° to 15°	A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No Spontaneous re-inflation	A A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Spontaneous re-inflation Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A A A A A A A A A A A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A A A A A A A A A A A A A A A A A A
Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Twist occurs	No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A A A A A A A A A A A A A A A	No collapse No Less than 45° Most lines tight Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A A A A A A A A A A A A A A A

Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	Α
Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Less than 360°	Α	Less than 360°	Α
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
No	Α	No	Α
No	Α	No	Α
No	Α	No	Α
Less than 90° / Dive or roll angle 15° to 45°	Α	90° to 180° / Dive or roll angle 45° to 60°	С
Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
Less than 360°	Α	Less than 360°	Α
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
No	Α	No	Α
No	Α	No	Α
No	Α	No	Α
A			
Voc	٨	Voc	۸
			Α
			A
More than 50 % of the symmetric control travel	А	control travel	Α
A			
No	Α	No	Α
A			
No	Α	No	Α
		, , ,	Α
	Α	No	Α
	A	, and the second se	Α
o ,	_	Ŭ '	Α
			A
			Α
	Α	No	Α
·		·	Α
-		•	A
•		·	A
	Α	Dive forward 0° to 30°	Α
•	A		A
	A		A
Spontaneous in less than 3 s	Α	· •	Α
Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Dive forward 0° to 30° Stable flight	A	Dive forward 0° to 30° Stable flight	A A
Dive forward 0° to 30°		Stable flight	
Dive forward 0° to 30° Stable flight		Stable flight Yes	
Dive forward 0° to 30° Stable flight	A	Stable flight	Α
Dive forward 0° to 30° Stable flight A Yes	A	Stable flight Yes	A
Dive forward 0° to 30° Stable flight A Yes No	A	Stable flight Yes	A
Dive forward 0° to 30° Stable flight A Yes No	A A A	Stable flight Yes No	A A A
	O° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No No No No No A Yes Yes More than 50 % of the symmetric control travel A No A	Spontaneous re-inflation A Less than 360° A No (or only a small number of collapsed cells with a spontaneous reinflation) No A No A No A No A No A Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation A Less than 360° A No (or only a small number of collapsed cells with a spontaneous reinflation) No A A Yes A More than 50 % of the symmetric control travel A No A Changing course less than 90° A No A A Changing course less than 45° A Remains stable with straight span A Spontaneous in less than 3 s Dive forward 0° to 30° A No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A A Standard technique Stable flight	Go to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No

