## 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 & LTF 91/09

Manufacturer 777 Jadraina padala d.o.o.		Certification number	PG_1438.2019		
Address	Ulica IV prekomorske 61 5270 Ajdovscina Slovenia	Flight test	1	9.04.2018	
Glider model	Q-light ML	Classification	C		
Serial number	QU-ML-G-0096	Representative	N	lone	
Trimmer	no	Place of test		/illeneuve	
_		riace or test	٠	Micheave	
Folding lines used	no				
Test pilot		Claude Thurnheer	A	Nain Zoller	
Harness		Icaro - Energy 2 L	(	Gin Gliders - Gingo 2 L	
Harness to risers distance (cm)		43	43		
Distance between risers (cm)		44		46	
• •					
Total weight in fligh	it (kg)	95	1	08	
1. Inflation/Take-off		С			
Rising behaviour		Overshoots, shall be slowed down	С	Overshoots, shall be slowed down	С
		to avoid a front collapse		to avoid a front collapse	
Special take off technique	e required	No	А	No	Α
2. Landing	roguired	<b>A</b> No	۸	No	۸
Special landing technique  3. Speed in straight flight		В	Α	No	Α
Trim speed more than 30		Yes	Α	Yes	Α
	ontrols larger than 10 km/h	Yes	Α	Yes	A
Minimum speed	introis larger triair to kinin	25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement		C		ZO KITWIT TO GO KITWIT	
Max. weight in flight up	to 80 ka	_			
Symmetric control pressu		not available	0	not available	0
Max. weight in flight 80					
Symmetric control pressure / travel		Increasing / 45 cm to 60 cm	С	Increasing / greater than 60 cm	Α
Max. weight in flight gre	eater than 100 kg	-			
Symmetric control pressu	re / travel	not available	0	not available	0
5. Pitch stability exiting	accelerated flight	A			
Dive forward angle on exi	t	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 dam	ping	Α			
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spir		Α			
Tendency to return to stra	0 0	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fully developed spiral dive		<b>A</b>			
Initial response of glider (first 180°)		Immediate reduction of rate of turn	A	Immediate reduction of rate of turn	A
Tendency to return to straight flight		Spontaneous exit (g force decreasing, rate of turn decreasing)	A	Spontaneous exit (g force decreasing, rate of turn decreasing)	A
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front coll		С			
Approximately 30 % cho	ord				

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		No	
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 30° to 60° / Keeping course	В
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back greater than 45°	С	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 30° to 60° / Keeping course	В
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
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	A
12. High angle of attack recovery	A		140	
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	C	^	110	
10. Recovery from a developed full stall				
	Divo forward 30° to 60°	D	Divo forward 60° to 00°	C
Dive forward angle on exit	Dive forward 30° to 60°	В	Dive forward 60° to 90°	C
Dive forward angle on exit Collapse	No collapse	Α	No collapse	Α
Dive forward angle on exit Collapse Cascade occurs (other than collapses)	No collapse No	A A	No collapse No	A A
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	No collapse No Greater than 45°	A A C	No collapse No Greater than 45°	A A C
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension	No collapse No Greater than 45° Most lines tight	A A	No collapse No	A A
Dive forward angle on exit  Collapse  Cascade occurs (other than collapses)  Rocking back  Line tension  14. Asymmetric collapse	No collapse No Greater than 45°	A A C	No collapse No Greater than 45°	A A C
Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension 14. Asymmetric collapse Small asymmetric collapse	No collapse No Greater than 45° Most lines tight C	A A C A	No collapse No Greater than 45° Most lines tight	A A C A
Dive forward angle on exit 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 Greater than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15°	A C A	No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45°	A A C A
Dive forward angle on exit 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 Greater than 45° Most lines tight C  Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action	A A C A	No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A C A
Dive forward angle on exit 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 Greater than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360°	A C A C	No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation  Less than 360°	A A C A A
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Dive forward angle on exit 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 Greater than 45° Most lines tight C  Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)	A A C A A	No collapse No Greater than 45° Most lines tight  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
Dive forward angle on exit 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 Greater than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A C A A A	No collapse No Greater than 45° Most lines tight  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
Dive forward angle on exit  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 Greater than 45° Most lines tight C  Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No	A A C A A A	No collapse No Greater than 45° Most lines tight  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	A A A A A
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Dive forward angle on exit  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 Greater than 45° Most lines tight C  Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No No Inflates in less than 3 s from start of	A A C A A A B	No collapse No Greater than 45° Most lines tight  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 90° to 180° / Dive or roll angle 15° to 45°	A A A A A B
Dive forward angle on exit 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 Greater than 45° Most lines tight  C  Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 100 1100 1100 1100 1100 110	A A C A A A B C	No collapse No Greater than 45° Most lines tight  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 Spontaneous re-inflation  90° to 180° / Dive or roll angle 15° to 45° Spontaneous re-inflation	A A A A A A A A
Dive forward angle on exit 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 Greater than 45° Most lines tight  C  Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No No No No So To 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous	A A C A A A B C A	No collapse No Greater than 45° Most lines tight  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 Spontaneous re-inflation  Less than 360° 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
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Dive forward angle on exit 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  Twist occurs	No collapse No Greater than 45° Most lines tight  C  Less than 90° / Dive or roll angle 0° to 15° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45° Inflates in less than 3 s from start of pilot action Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A C A A A A A A	No collapse No Greater than 45° Most lines tight  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  90° to 180° / 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 re-inflation) No No (or only a small number of collapsed cells with a spontaneous reinflation) No	A A A A A A A A A A

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 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Inflates in less than 3 s from start of pilot action	С
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		No	
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	Inflates in less than 3 s from start of pilot action	С	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		No	
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	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	<b>A</b>			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	B		0	-
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in 90° to 180°	В
Cascade occurs	No	Α	No	Α
19. B-line stall Change of course before release	A Changing course less than 45°	۸	Changing course less than 45°	۸
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
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	Spontaneous in less than 3 s	Α	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit	Dive forward 0° to 30°	Α	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	Recovery through pilot action in less than a further 3 s	В	Spontaneous in less than 3 s	Α
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	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs			Na	۸
OO A see all an file let asses along and the see file see that	No	Α	No	Α
23. Any other flight procedure and/or configuration described in the user's manual	No 0	А	NO	A
	-	A 0	not available	0

Procedure suitable for novice pilots	not available	0 not available	0
Cascade occurs	not available	0 not available	0

24. Comments of test pilot