AIR TURQUOISE SA | PARA-TEST.COM

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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

Approximately 30 % chord



Flight test report: EN 926-2:2013 & LTF 91/09

Manufacturer	AirDesign GmbH	Certification number	F	PG_1671.2020		
Address Rhombergstraße 9, 4.Stock 6067 Absam Austria		Flight test				
Glider model	Soar M	Classification	Е	3		
Serial number XB32M1PP193722P		Representative	N	None		
Trimmer no		Place of test	Villeneuve			
Folding lines used	no	Tidoc of toot	•	moriedve		
Test pilot		Claude Thurnheer	Α	lain Zoller		
Harness		Icaro - Energy 2 L	Α	Advance - Success 4 L		
Harness to risers distance (cm)		43	4	44		
Distance between risers (cm)		44		46		
Total weight in flight (kg)		85	-	105		
i otai weigiit iii iligi	it (Ng)	00	1	00		
1. Inflation/Take-off		В				
Rising behaviour		Smooth, easy and constant rising	Α	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	
3. Speed in straight fligh	nt	A				
Trim speed more than 30 km/h		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	Less than 25 km/h	Α	
4. Control movement		Α				
Max. weight in flight up	-				_	
Symmetric control pressure / travel		not available	0	not available	0	
Max. weight in flight 80 kg to 100 kg		languaging / granter than CO are	^		0	
Symmetric control pressure / travel		Increasing / greater than 60 cm	Α	not available	0	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel		not available	0	Increasing / greater than 65 cm	Α	
		A	U	increasing / greater than 05 cm	^	
5. Pitch stability exiting accelerated flight Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α	
Collapse occurs		No	Α	No	Α	
	ng controls during accelerated	A				
Collapse occurs		No	Α	No	Α	
7. Roll stability and dam	ping	Α				
Oscillations		Reducing	Α	Reducing	Α	
8. Stability in gentle spir	rals	Α				
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α	
9. Behaviour exiting a fu	Illy developed spiral dive	Α				
Initial response of glider (first 180°)		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 nor		Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α	
10. Symmetric front coll	apse	В				

Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	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 0° to 30° / Keeping	A	Dive forward 0° to 30° / Keeping	A
Dive forward angle on exit / Change of course	course	А	course	A
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	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	٠
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	Α
		A	Spontaneous in less than 3 s	A
Recovery	Spontaneous in less than 3 s			
Dive forward angle on exit	Dive forward 0° to 30°	A	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	В			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 30° to 60°	В
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
	B		wost lines tight	^
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°	А	Less than 90° / Dive or roll angle 0° to 15°	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		No	
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	Α	No (or only a small number of	Α
	collapsed cells with a spontaneous reinflation)	_	collapsed cells with a spontaneous reinflation)	
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
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	Α	No (or only a small number of collapsed cells with a spontaneous	Α
	reinflation)		reinflation)	
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	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		No	
15. Directional control with a maintained asymmetric	A			
collapse				
Able to keep course	Yes	A	Yes	A
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	Α			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	В			
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	Α			
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	Spontaneous in less than 3 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
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 less than 3 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	A			
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
		_	mak available	0
Procedure suitable for novice pilots	not available	0	not available	0

