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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Manufacturer	AirDesign GmbH	Certification number	F	PG_1668.2020	
Address	Rhombergstraße 9, 4.Stock 6067 Absam Austria	Flight test	1	0.12.2019	
Glider model	Soar XXS	Classification	Е	3	
Serial number XB32XXS1PP193734P		Representative	S	Stephane Stiegler	
Trimmer no		Place of test		Villeneuve	
Folding lines used	no	ridde or test	٧	merieave	
i olding iirles asea	110				
Test pilot		Light pilot under Air Turquoise supervision	C	Claude Thurnheer	
Harness		Supair - Altiplume S	S	Supair - Altiplume S	
Harness to risers distance (cm)		44	4	44	
Distance between risers (cm)		40	4	40	
Total weight in fligh	, ,	50		2	
	·· (··ʊ/		_ '	_	
1. Inflation/Take-off		A			
Rising behaviour		Smooth, easy and constant rising	Α	Smooth, easy and constant rising	Α
Special take off technique	required	No	Α	No	Α
2. Landing		Α			
Special landing technique		No	Α	No	Α
3. Speed in straight fligh		В			
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	25 km/h to 30 km/h	В
4. Control movement	00 los	Α			
Max. weight in flight up to 80 kg		Increasing / greater than EE am	۸	Increasing / greater than EE am	^
Symmetric control pressur		Increasing / greater than 55 cm	Α	Increasing / greater than 55 cm	Α
Max. weight in flight 80 kg to 100 kg		not available	0	not available	0
Symmetric control pressure / travel Max. weight in flight greater than 100 kg		not available	U	not available	U
Symmetric control pressur	_	not available	0	not available	0
5. Pitch stability exiting a		A		not available	Ŭ
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 operating controls during accelerated flight		Α			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping		A			
			Α.	Reducing	Α
Oscillations		Reducing	Α	9	
Oscillations 8. Stability in gentle spira		A		· ·	
Oscillations 8. Stability in gentle spira Tendency to return to strain	ight flight	A Spontaneous exit	A	Spontaneous exit	
Oscillations 8. Stability in gentle spira Tendency to return to strai 9. Behaviour exiting a fu	ght flight Ily developed spiral dive	A Spontaneous exit A	A	Spontaneous exit	A
Oscillations 8. Stability in gentle spir. Tendency to return to strai 9. Behaviour exiting a fu Initial response of glider (fi	ight flight Ily developed spiral dive irst 180°)	A Spontaneous exit A Immediate reduction of rate of turn	A	Spontaneous exit Immediate reduction of rate of turn	A
Oscillations 8. Stability in gentle spira Tendency to return to strai 9. Behaviour exiting a fu	ight flight Ily developed spiral dive irst 180°)	A Spontaneous exit A	A	Spontaneous exit	A
Oscillations 8. Stability in gentle spir. Tendency to return to strai 9. Behaviour exiting a fu Initial response of glider (fi	ght flight Ily developed spiral dive irst 180°) ight flight nal flight	A Spontaneous exit A Immediate reduction of rate of turn Spontaneous exit (g force	A A A	Spontaneous exit Immediate reduction of rate of turn Spontaneous exit (g force	A A 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		No	
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	Α	Dive forward 0° to 30° / Keeping	Α
· ·	course		course	
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	A	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No	, ,	No	,,
11. Exiting deep stall (parachutal stall)	A			
Deep stall achieved	Yes	Α	Yes	٨
				A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
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	Α			
Dive forward angle on exit	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		meet meet ag.u	
Small asymmetric collapse	_			
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	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°	A
-		A		A
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	^	No (or only a small number of collapsed cells with a spontaneous reinflation)	۸
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	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	-	No	٠
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	Α	Less than 90° / Dive or roll angle	Α
roll angle	0° to 15°	А	15° to 45°	Α

Re-inflation behaviour	Spontaneous re-inflation	Δ	Spontaneous re-inflation	Α
Total change of course	Spontaneous re-inflation Less than 360°	A A	Less than 360°	A
Collapse on the opposite side occurs	No (or only a small number of	A	No (or only a small number of	A
Conlapse on the apposite side occurs	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	
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	Α			
collapse				
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	A			
Spin occurs	No -	Α	No	Α
18. Recovery from a developed spin	B		01	_
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in 90° to 180°	В
Cascade occurs 19. B-line stall	No A	Α	No	Α
Change of course before release	Changing course less than 45°	۸	Changing course less than 45°	۸
Behaviour before release	Remains stable with straight span	A A	Remains stable with straight span	A A
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Cascade occurs	No	Α		Α
20. Big ears	A	• •		,,
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 less than 3 s	Α
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	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 works as described	1101 01 0110010			
Procedure suitable for novice pilots	not available	0	not available	0