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+A1:2021* & NfL 2-565-20

Manufacturer Skywalk GmbH & Co. KG		Certification number		PG_1988.2022		
Address	Windeckstr. 4 83250 Marquartstein Germany	Flight test	2	23.02.2021		
Glider model	X-Alps 5 85+	Classification	D	•		
Serial number	XA13 XS	Representative	Ν	lone		
Trimmer	no	Place of test		lleneuve		
Folding lines used	yes	ridoc or test	v	moneave		
. c.agcc acca	,					
Test pilot		Philippe Dupont		claude Thurnheer		
Harness		Supair - Altiplume S	Α	Advance - Success 4 M		
Harness to risers distance (cm) Distance between risers (cm)		44	44 44			
		40				
Total weight in fligh	nt (kg)	70		85		
	,					
1. Inflation/Take-off		C				
Rising behaviour		Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	C	
Special take off technique	required	No	Α	No	A	
2. Landing		A				
Special landing technique	required	No	Α	No	F	
3. Speed in straight fligh		В				
Trim speed more than 30 km/h		Yes	Α	Yes	P	
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	P	
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	E	
4. Control movement		С				
Max. weight in flight up	<u>-</u>					
Symmetric control pressure / travel		Increasing / 40 cm to 55 cm	С	not available	(
Max. weight in flight 80 I	-					
Symmetric control pressure / travel		not available	0	Increasing / 45 cm to 60 cm	(
Max. weight in flight greater than 100 kg			_		_	
Symmetric control pressur		not available	0	not available	C	
5. Pitch stability exiting accelerated flight		A	^	Dive forward lase than 20°	,	
Dive forward angle on exit		Dive forward less than 30° No	A	Dive forward less than 30° No	F	
Collapse occurs			$\overline{}$	NU		
	ng controls during accelerated	A				
flight	ng controls during accelerated	Α	Δ	No	_	
flight Collapse occurs		A No	Α	No	F	
flight Collapse occurs 7. Roll stability and dam		A No A				
flight Collapse occurs 7. Roll stability and dam Oscillations	ping	A No	A	No Reducing		
flight Collapse occurs 7. Roll stability and dam Oscillations	ping	A No A Reducing			F	
flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spir Tendency to return to stra	ping	A No A Reducing A	A	Reducing	F	
flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spir Tendency to return to stra 9. Behaviour exiting a fu	ping rals ight flight illy developed spiral dive	A No A Reducing A Spontaneous exit	A	Reducing	A	
flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spir Tendency to return to stra	ping als ight flight illy developed spiral dive irst 180°)	A No A Reducing A Spontaneous exit C	A	Reducing Spontaneous exit	Æ	
flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spir Tendency to return to stra 9. Behaviour exiting a fu Initial response of glider (f	ping als ight flight illy developed spiral dive irst 180°) ight flight	A No A Reducing A Spontaneous exit C No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing) 720° to 1 080°, spontaneous	A A B	Reducing Spontaneous exit No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing) 1080° to 1440°, spontaneous	A E A	
flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spir Tendency to return to stra 9. Behaviour exiting a fu Initial response of glider (f Tendency to return to stra	ping als ight flight illy developed spiral dive irst 180°) ight flight mal flight	A No A Reducing A Spontaneous exit C No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing)	A A B A	Reducing Spontaneous exit No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing)	A A A A A A A A A A A A A A A A A A A	
flight Collapse occurs 7. Roll stability and dam Oscillations 8. Stability in gentle spir Tendency to return to stra 9. Behaviour exiting a fu Initial response of glider (f Tendency to return to stra Turn angle to recover nor	ping cals ight flight illy developed spiral dive irst 180°) ight flight mal flight apse	A No A Reducing A Spontaneous exit C No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing) 720° to 1 080°, spontaneous recovery	A A B A	Reducing Spontaneous exit No immediate reaction Spontaneous exit (g force decreasing, rate of turn decreasing) 1080° to 1440°, spontaneous	A E A	

Description	Chantanagua in 2 a ta E a	В	Chantanagua in laga than 2 a	٨
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	A
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	Yes	D	Yes	D
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	Recovery through pilot action in less than a further 3 s	D
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	۸
				A
Folding lines used	Yes	D	Yes	D
With accelerator	B 1: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_	D 1: 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	_
Entry	Rocking back greater than 45°	C	Rocking back greater than 45°	C
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	Yes	D	Yes	D
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		140	
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Cascade occurs	No	A	No	A
	C	A	NO	A
13. Recovery from a developed full stall		_	Direct forestend 00% to 00%	_
Dive forward angle on exit	Dive forward 30° to 60°	В	Dive forward 60° to 90°	С
Collapse	No collapse	A	No collapse	A
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	D			
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°	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	Yes	D	Yes	D
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	Α	Yes, no turn reversal	C
Collapse on the opposite side occurs	collapsed cells with a spontaneous reinflation)	^	res, no tum reversar	C
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
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 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°	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	Yes	D	Yes	D
Large 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 45° to 60°	С	Less than 90° / Dive or roll angle 45° to 60°	С
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	Yes, no turn reversal	С
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
15. Directional control with a maintained asymmetric	A			
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	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	D			
Spin occurs	Yes	D	No	Α
18. Recovery from a developed spin	D	Ь	Ctore enimals in 400° to 200°	_
Spin rotation angle after release	Stops spinning in 90° to 180°	В	Stops spinning in 180° to 360°	D
Cascade occurs 19. B-line stall	No 0	Α	No	Α
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Cascade occurs	not available	0	not available	0
20. Big ears	A	U	not available	U
Entry procedure	Standard technique	Α	Standard technique	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	A			
Entry procedure	Standard technique	Α	Standard technique	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
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
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0
24. Comments of test pilot	Big ears with B3		Big ears with B3	

Big ears with B3.

Big ears with B3.