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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

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Manufacturer ADVANCE Thun AG Address Uttigenstrasse 87 3600 Thun Switzerland		Certification number	F	PG_1467.2019		
		Flight test		04.06.2019		
Glider model Omega X-Alps 3 24		Classification)		
Serial number	81310	Representative	N	lone		
Trimmer no		Place of test		Villeneuve		
Folding lines used		ridde of test	٧	lierieuve		
r olding lines used	yes					
Test pilot		Claude Thurnheer	Α	Alain Zoller		
Harness		Advance - Success 4 M	C	Gin Gliders - Gingo 2 L		
Harness to risers distance (cm) Distance between risers (cm)		43	43 46 110			
		44				
		95				
Total weight in flight	. (kg)	95	ı	10		
1. Inflation/Take-off		С				
Rising behaviour		Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	С	
Special take off technique r	equired	No	Α	No	Α	
2. Landing		Α				
Special landing technique r	equired	No	Α	No	A	
3. Speed in straight flight		B				
Trim speed more than 30 km/h		Yes	A	Yes	Α.	
Speed range using the controls larger than 10 km/h		Yes	A	Yes	A	
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В	
4. Control movement	. 00 km	С				
Max. weight in flight up to 80 kg		not available	0	not available	0	
Symmetric control pressure / travel Max. weight in flight 80 kg to 100 kg		Hot available	U	not available	U	
Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel		Increasing / greater than 60 cm	Δ	Increasing / 45 cm to 60 cm	С	
Max. weight in flight greater than 100 kg		moreasing / greater than 55 cm	,,	more doing / 40 om to 00 om	Ü	
Symmetric control pressure / travel		Increasing / 50 cm to 65 cm	С	not available	0	
Pitch stability exiting accelerated flight		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 operating flight	g controls during accelerated	Α				
Collapse occurs		No	Α	No	Α	
7. Roll stability and damp	ing	Α				
Oscillations		Reducing	Α	Reducing	Α	
8. Stability in gentle spirals		Α				
Tendency to return to straig	· · · · ·	Spontaneous exit	Α	Spontaneous exit	Α	
9. Behaviour exiting a full		C				
Initial response of glider (fire		No immediate reaction	В	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 norm	ai fiight	1080° to 1440°, spontaneous recovery	С	Less than 720°, spontaneous recovery	Α	
10. Symmetric front collap		D				
Approximately 30 % chore	d			-	_	
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° Entering a turn of less than 90°	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes		Yes	
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 less than 3 s	Α
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	Yes		Yes	
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back greater than 45°	С
Recovery	Spontaneous in less than 3 s	Α	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 30° to 60° / Keeping course	В
Cascade occurs	No	Α	No	Α
Folding lines used	Yes		Yes	
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		NO	
		٨	Countain and in loca than 2 a	٨
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	C			
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	Greater than 45°	С
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	С			
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°	Α	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	Yes		Yes	
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 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		Yes	
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	۸	Spontaneous re inflation	٨
Total change of course	Spontaneous re-inflation Less than 360°	A A	Spontaneous re-inflation Less than 360°	A A
Collapse on the opposite side occurs	No (or only a small number of	A	No (or only a small number of	A
	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	Yes		Yes	
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	Yes, no turn reversal	С
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	, ,	Yes	
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	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	D			
Spin rotation angle after release	Stops spinning in 180° to 360°	D	Stops spinning in 180° to 360°	D
Cascade occurs	No	Α	No	Α
19. B-line stall	0			
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	В			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	A	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 3 s to 5 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				