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AIR TURQUOISE SA certified by

## Flight test report: EN

no

Trimmer



Manufacturer	Skywalk GmbH & Co. KG	Certification number	PG_0385.2010
Address	Bahnhofstraße 110 83224 GRASSAU Germany	Date of flight test	19. 11. 2010
Representative	Arne Wehrlin	Place of test	Villeneuve
Glider model	Mescal 3 S	Classification	Α

	t Thurnheer Claude Sup' Air - Altiplume S		Zoller Alain Sup'Air - Altiplume S	
Total weight in flight (kg	·		95	
1. Inflation/Take-off	Α			
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 required	No	Α	No	Α
3. Speed in straight flight	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 to 80 kg				
Symmetric control pressure / travel	Increasing / greater than 55 cm	Α	not available	0
Max. weight in flight 80 kg to 100 kg				
Symmetric control pressure / travel	not available	0	Increasing / greater than 60 cm	Α
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel	not available	0	not available	0
5. Pitch stability exiting accelerated flight	Α			
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	Α			
Oscillations	Reducing	Α	Reducing	Α
8. Stability in gentle spirals	Α			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour in a steeply banked turn	Α			
Sink rate after two turns	12 m/s to 14 m/s	Α	12 m/s to 14 m/s	Α
10. Symmetric front collapse	Α			
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
With accelerator				
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 A Dive forward 0° to 30° / Keeping course  Dive forward 0° to 30° / Keeping Course	oing A
Cascade occurs No A No	Α
11. Exiting deep stall (parachutal stall)	
Deep stall achieved Yes A Yes	Α
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s	. А
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° A Changing course less than 45°	5° A
Cascade occurs No A No	Α
12. High angle of attack recovery	
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s	. А
Cascade occurs No A No	Α
13. Recovery from a developed full stall  A	, ·
Dive forward 0° to 30° A Dive forward 0° to 30°	А
Collapse No collapse A No collapse	A
	A
	A
Line tension Most lines tight A Most lines tight	Α
14. Asymmetric collapse A	
With 50% collapse	
Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll argument to 15°	ngle 0° A
Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation	Α
Total change of course Less than 360° A Less than 360°	Α
Collapse on the opposite side occurs No A No	Α
Twist occurs No A No	Α
Cascade occurs No A No	Α
With 75% collapse	
Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45°  Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45°	ngle A
Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation	Α
Total change of course Less than 360° A Less than 360°	Α
Collapse on the opposite side occurs  No  A  No	Α
Twist occurs No A No	Α
Cascade occurs No A No	A
With 50% collapse and accelerator	7.
Change of course until re-inflation / Maximum dive forward or roll angle A Less than 90° / Dive or roll angle A Less than 90° / Dive or roll argument to 15° to 15°	ngle 0° A
Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation	٨
	Α
	A
Collapse on the opposite side occurs  No A No	A
Twist occurs No A No	A
Cascade occurs No A No	Α
With 75% collapse and accelerator	
Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll argle 15° to 45°  Less than 90° / Dive or roll angle 15° to 45°	ngle A
Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation	Α
Total change of course Less than 360° A Less than 360°	Α
Collapse on the opposite side occurs No A No	Α
Twist occurs No A No	Α
Cascade occurs No A No	Α
15. Directional control with a maintained asymmetric A collapse	
Able to keep course Yes A Yes	Α
180° turn away from the collapsed side possible in 10 s Yes A Yes	Α
Amount of control range between turn and stall or spin More than 50 % of the A More than 50 % of the	etric A
symmetric control travel control travel	

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	Α			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
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	Α			
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	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	Α	Stable flight	Α
22. Behaviour exiting a steep spiral	Α			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
Sink rate when evaluating spiral stability [m/s]	15		17	
23. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
24. 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
25. Comments of test pilot				
Comments				