para-test.com paragliding by air turquoise

Airwave Paragliders Ltda.

PG_0751.2013

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Entry

Entry

Recovery

Recovery

Cascade occurs

With accelerator

Address	Av. Senador Feijo, 161/04 11015-503 Santos SP Brazil	Date of flight test		18. 06. 2013	
Representative	None	Place of test		Villeneuve	
Glider model	Tandem 42	Classification		В	
Trimmer	ves: closed			_	
	yes. doocd				
	Test pilot	Thurnheer Claude		Zoller Alain	
	Harness	Advance - Bi Pro 2		Advance - Bi Pro 2	
	Total weight in flight (kg)	130		220	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off techniqu	e required	No	А	No	А
2. Landing		Α			
Special landing technique	e required	No	А	No	А
3. Speed in straight flig	ht	В			
Trim speed more than 30 km/h		Yes	А	Yes	А
Speed range using the controls larger than 10 km/h		Yes	А	Yes	А
Minimum speed		Less than 25 km/h	А	25 km/h to 30 km/h	В
4. Control movement		Α			
Max. weight in flight up to	o 80 kg				
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight 80 k	rg to 100 kg				
Symmetric control pressu	ure / travel	not available	0	not available	0
Max. weight in flight grea	-				
Symmetric control press		Increasing / greater than 65 cm	A	Increasing / greater than 65 cm	A
5. Pitch stability exiting	· · · · · · · · · · · · · · · · · · ·	0			
Dive forward angle on ex	kit	not available	0	not available	0
Collapse occurs		not available	0	not available	0
6. Pitch stability operat flight	ing controls during accelerated	0			
Collapse occurs		not available	0	not available	0
7. Roll stability and dar	nping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spirals		Α			
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steep	ly banked turn	В			
Sink rate after two turns		12 m/s to 14 m/s	А	More than 14 m/s	В
10. Symmetric front col	llapse	Α			

Certification number

В Α Rocking back less than 45° Rocking back less than 45° А А Spontaneous in less than 3 s А Spontaneous in less than 3 s А Dive forward angle on exit / Change of course Dive forward 0° to 30° / Keeping Dive forward 0° to 30° / Keeping А А course course No A No А 0 not available 0 not available 0 not available 0 not available

Dive featured angle on evit / Change of equipe	not ovollable	0	not evaluable	0
Dive forward angle on exit / Change of course Cascade occurs	not available	0	not available	0
	not available B	0	not available	0
11. Exiting deep stall (parachutal stall) Deep stall achieved	B Yes	А	Yes	А
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°	A	Dive forward 30° to 60°	В
Change of course	Changing course less than 45°	A	Changing course less than 45°	A
Cascade occurs	No	A	No	A
12. High angle of attack recovery	A	~		~
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	В			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	в
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	B		J. J	
With 50% 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 0° to 15° $$	Α
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45° $$	A	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
15. Directional control with a maintained asymmetric collapse	Α			
Able to keep course	Yes	А	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric	А
	symmetric control travel		control travel	

Spin occursNoANoA17. Low speed spin tendencyAASpin occursNoANoA18. Recovery from a developed spinAAAA
Spin occurs No A No A
18. Recovery from a developed spin A
Spin rotation angle after release Stops spinning in less than 90° A Stops spinning in less than 90° A
Cascade occurs No A No A
19. B-line stall A
Change of course before release Changing course less than 45° A not available 0
Behaviour before release Remains stable with straight A not available 0 span 0
Recovery Spontaneous in less than 3 s A not available 0
Dive forward angle on exitDive forward 0° to 30°Anot available0
Cascade occurs No A not available 0
20. Big ears A
Entry procedure Dedicated controls A Standard technique A
Behaviour during big ears Stable flight A Stable flight A
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A
Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A
21. Big ears in accelerated flight 0
Entry procedure not available 0 not available 0
Behaviour during big ears not available 0 not available 0
Recovery not available 0 not available 0
Dive forward angle on exit not available 0 not available 0
Behaviour immediately after releasing the accelerator while not available 0 not available 0 maintaining big ears 0 not available 0 0 0
22. Behaviour exiting a steep spiral A
Tendency to return to straight flight Spontaneous exit A Spontaneous exit A
Turn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA
Sink rate when evaluating spiral stability [m/s] 14 21
23. Alternative means of directional control A
180° turn achievable in 20 sYesAYesA
Stall or spin occurs No A No A
24. Any other flight procedure and/or configuration 0 described in the user's manual
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