para-test.com paragliding by air turquoise

Sky Paragliders a.s.

Okružní 39

PG_0691.2013

21.03.2013

AIR TURQUOISE SA certified by



Flight test report: EN

Manufacturer

Address

,	Audress	73911 Frýdlant nad Ostravici Czech Republic			21.03.2013	
F	Representative	None	Place of test		Villeneuve	
(Glider model	Metis 3 40	Classification		В	
	Trimmer	yes: opened				
		yes. opened				
		Testulist	Thursda an Olauda			
		•	Thurnheer Claude		Zoller Alain	
			Advance - Bi Pro 2		Advance - Bi Pro 2	
_		Total weight in flight (kg)	110		220	
	. Inflation/Take-off		Α			
	Rising behaviour		Smooth, easy and constant rising		Smooth, easy and constant rising	A
			No	A	No	А
2. Landing			Α			
Special landing technique required			No	A	No	A
3. Speed in straight flight			В			
	rim speed more than 30 kr		Yes	A	Yes	A
	Speed range using the cont	rols larger than 10 km/h	Yes	A	Yes	A
	Ainimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
	Control movement	0.42	Α			
Max. weight in flight up to 80 kg		not available	0	not available	0	
Symmetric control pressure / travel				0	not available	0
	Max. weight in flight 80 kg to 100 kg Symmetric control pressure / travel Max. weight in flight greater than 100 kg		not available	0	not available	0
				0		0
	Symmetric control pressure		Increasing / greater than 65 cm	А	Increasing / greater than 65 cm	А
			0	Λ	increasing / greater than 00 cm	~
	5. Pitch stability exiting accelerated flight Dive forward angle on exit		not available	0	not available	0
	Collapse occurs		not available	0	not available	0
6. Pitch stability operating controls during accelerated			0			
	light	-				
C	Collapse occurs		not available	0	not available	0
7	. Roll stability and damp	ing	Α			
	Dscillations		Reducing	А	Reducing	А
8. Stability in gentle spirals		Α				
	endency to return to straig	•	Spontaneous exit	A	Spontaneous exit	A
	. Behaviour in a steeply l	banked turn	B			_
	Sink rate after two turns		Up to 12 m/s	A	More than 14 m/s	В
	0. Symmetric front collar	DSE	B			
Entry			Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery			Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
			Dive forward 0° to 30° / Keeping course	A	Dive forward 30° to 60° / Keeping course	В
	Cascade occurs		No	A	No	A
	Vith accelerator			~		~
	Entry		not available	0	not available	0
F	Recovery		not available	0	not available	0

Certification number

Date of flight test

		•		•
Dive forward angle on exit / Change of course	not available	0	not available	0
Cascade occurs	not available	0	not available	0
11. Exiting deep stall (parachutal stall)	A		Mar.	
Deep stall achieved	Yes	A	Yes	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°	A	Dive forward 0° to 30°	A
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		On antenna in land them 0 a	•
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	A
13. Recovery from a developed full stall	B Dive featured 0° to 20°	^	Dive ferward 20° to 60°	D
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 30° to 60°	B
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight	A	Most lines tight	A
14. Asymmetric collapse	В			
With 50% 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°	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	A	Less than 360°	A
Collapse on the opposite side occurs	No	A	No	A
Twist occurs	No	A	No	A
Cascade occurs	No	A	No	A
With 75% 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	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	

16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	А			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	А			
Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
Cascade occurs	No	А	No	А
19. B-line stall	А			
Change of course before release	Changing course less than 45°	А	not available	0
Behaviour before release	Remains stable with straight span	А	not available	0
Recovery	Spontaneous in less than 3 s	А	not available	0
Dive forward angle on exit	Dive forward 0° to 30°	Α	not available	0
Cascade occurs	No	Α	not available	0
20. Big ears	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	А
Behaviour during big ears	Stable flight	Α	Stable flight	А
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
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 maintaining big ears	not available	0	not available	0
22. Behaviour exiting a steep spiral	А			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
Sink rate when evaluating spiral stability [m/s]	14		26	
23. Alternative means of directional control	А			
180° turn achievable in 20 s	Yes	Α	Yes	А
Stall or spin occurs	No	Α	No	А
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				