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Sky Paragliders a.s.

Okružní 39

PG_0343.2010

21.06.2010

AIR TURQUOISE SA certified by



Flight test report: EN	Flig	aht	test	report:	EN
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Manufacturer

Address

Entry

Entry

Recovery

Recovery

Cascade occurs

With accelerator

Dive forward angle on exit / Change of course

	73911 Frýdlant nad Ostravic Czech Republic	í			
Representative	None	Place of test		Villeneuve	
Glider model	Metis 2 40	Classification		В	
Trimmer	yes: opened				
	Test pilot	Zoller Alain		Thurnheer Claude	
	· · · · · · · · · · · · · · · · · · ·	Gin Gliders - Gingo 2 L		Advance - Bi-pro 2	
	Total weight in flight (kg)	•		220	
1. Inflation/Take-off	Total weight in hight (kg)	A		220	
Rising behaviour		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique	required	No	Α	No	A
2. Landing		A			
Special landing technique	required	No	А	No	А
3. Speed in straight fligh		В			
Trim speed more than 30	km/h	Yes	А	Yes	А
•		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	80 kg				
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight 80 kg to 100 kg					
Symmetric control pressure / travel		not available	0	not available	0
Max. weight in flight greate	er than 100 kg				
Symmetric control pressur		Increasing / greater than 65 cm	Α	Increasing / greater than 65 cm	A
5. Pitch stability exiting	•	0			
Dive forward angle on exit		not available	0	not available	0
Collapse occurs		not available	0	not available	0
6. Pitch stability operation flight	ng controls during accelerated	0			
Collapse occurs		not available	0	not available	0
7. Roll stability and dam	ping	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spir	als	Α			
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	А
9. Behaviour in a steeply 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 colla	apse	Α			

Rocking back less than 45°

course

not available

not available

No

Spontaneous in less than 3 s

Dive forward 0° to 30° / Keeping

Certification number

Date of flight test

А

А

А

А

0

0

Rocking back less than 45°

Spontaneous in less than 3 s

Dive forward 0° to 30° / Keeping

А

А

А

A No

0

0

course

not available not available

Dive featured angle on evit / Change of equipe	not ovollable	0	not ovolloblo	0
Dive forward angle on exit / Change of course Cascade occurs	not available not available	0	not available	0
	A	0	not available	0
11. Exiting deep stall (parachutal stall) Deep stall achieved	A 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 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	~		~
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	B			7.
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 30° to 60°	в
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	Α	No	A
Rocking back	Less than 45°	Α	Less than 45°	A
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	B			
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°	A	Less than 90° / Dive or roll angle 15° to 45°	А
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	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	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
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	Α			
Change of course before release	Changing course less than 45°	А	Changing course less than 45°	А
Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	В			
Entry procedure	Dedicated controls	А	Dedicated controls	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Spontaneous in less than 3 s	A	Recovery through pilot action in less than a further 3 s	В
Dive forward angle on exit	Dive forward 0° to 30°	А	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	Α			
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	А
Sink rate when evaluating spiral stability [m/s]	16		21	
23. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	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				