Flight test report

 Manufacturer
 Icaro

 Address
 Fly & More GmbH

 Hochriesstrasse 1, 83126 Flintsbach

 Germany

 Representive
 Alexander Meschuh

Type of glider Incanto M Trimmer not available Certification number Date of flight test Place of test

Classification B

PG 012.2006 31.08.06 Villeneuve

Test PilotClaude ThurnheerHarnessGin Genie 3Total weight in flight80 kg

Alain Zoller Sol Slider L 105 kg

		Min weight	Max weight
1. Inflation/Ta			
	Rising behaviour	Smooth, easy and constant rising	
	Special take off technique required	No	A No A
2. Landing			
	Special landing technique required	No	A No A
3. Speed in st			
	Trim speed more than 30 km/h	Yes A	
	Speed range using the controls larger than 10 km/h	Yes A	
4 Control ma	Minimum speed	Less than 25 km/h	A Less than 25 km/h A
4. Control mo	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	Increasing, Greater than 65 cm	not available 0
	Max. weight in flight greater than 100 kg		
	Symmetric control pressure/travel	not available	0 Increasing, Greater than 65 cm A
5. Pitch stabi	lity exiting accelerated flight		
	Dive forward angle on exit	Dive forward less than 30°	A Dive forward less than 30° A
	Collapse occurs	No	A No A
6. Pitch stabi	lity operating controls during accelerated flight		
	Collapse occurs	No	A No A
7. Roll stabili	ty and damping		
	Oscillations	Reducing A	A Reducing A
8. Stability in	gentle spirals		
	Tendency to return to straight flight	Spontaneous exit	A Spontaneous exit A
9. Behaviour	in a steeply banked turn		
10.0	Sink rate after two turns	More than 14 m/s	B More than 14 m/s B
10. Symmetri	c front collapse	Dealing heads less than 45%	Decking back loss than 45%
	Entry	Rocking back less than 45°	•
	Recovery Dive forward angle on exit	•	
	Cascade occurs	Dive foward 0°to 30°, Keeping course	
	With accelerator	NO A	
	Entry	Rocking back less than 45°	Rocking back less than 45° A
	Recovery	Spontaneous in less than 3 s	•
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	
	Cascade occurs	No A	
11. Exiting de	ep stall (parachutal stall)		
Ū	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 angl	e of attack recovery		
	Recovery	Spontaneous in less than 3 s	
	Cascade occurs	No	A No A
13. Recovery	from a developed full stall		
	Dive forward angle on exit	Dive forward 30°to 60°	
	Collapse	No collapse	
	Cascade occurs (other than collapse)	No A	
	Rocking back	Less than 45°	
14. Asymmet	Line tension	Most line tight	A Most line tight A
14. Asymmet			
	With 50% collapse-Maximum dive forward or roll angle Change of course until re-infation	Less than 90°, Dive or roll angle 15° to 45°	Less than 90°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation	-
	Total change of course	Less than 360°	
	Collapse on the opposite side occurs	No A	
	Twist occurs	No A	
	Cascade occurs	No	
	With 75% collapse-Maximum dive forward or roll angle	,	
	Change of course until re-infation	90° to 180°, Dive or roll angle 15° to 45°	B 90° to 180°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	Spontaneous re-inflation	
	Total change of course	Less than 360°	
	Collapse on the opposite side occurs	No A	
	Twist occurs	No	
	Cascade occurs	No	
	With 50% collapse and accelerator-Maximum dive forward or		
	Change of course until re-infation		Less than 90°, Dive or roll angle 15° to 45° A
	Re-inflation behaviour	Spontaneous re-inflation	
	Total change of course	Less than 360°	not available 0
	Collapse on the opposite side occurs	No	A No A

	Twist occurs	No	Δ	No	А
	Cascade occurs	No	A		A
	With 75% collapse and accelerator-Maximum dive forward or		~		~
	Change of course until re-infation	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	Ā	Spontaneous re-inflation	Ā
	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
15 Direction	al control with a maintained asymmetric collapse				
	Able to keep course	Yes	А	Yes	А
	180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	A	More than 50 % of the symmetric control travel	A
16. Trim spec	ed spin tendency				
	Spin occurs	No	А	No	А
17. Low spee	ed spin tendency				~
· · · · · · · · · · · · · · · · · ·	Spin occurs	No	А	No	А
18. Recovery	/ from a developed spin				
· · · · · · · · · · · · · · · · · · ,	Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
	Cascade occurs	No	A	No	A
19. B-line sta					
	Change of course before release	Change of course less than 45°	А	Change of course less than 45°	А
	Behaviour before release	Remains stable with straight span	А	Remains stable with straight span	А
	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					
Ū	Entry procedure	Standard technique	А	Dedicated controls	А
	Behaviour during big ears	Stable flight	А	Stable flight	А
	Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	А
	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears i	in accelerated flight				
-	Entry procedure	Standard technique	Α	Dedicated controls	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	Recovery	Spontaneous in 3 s to 5 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. Behaviou	r exiting a steep spiral				
	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 m/s		17 m/s	
23. Alternativ	ve means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any othe	r flight procedure and/or configuration described in the use	er's manual			
	Procedure works as described	Yes	Α	not available	0
	Procedure suitable for novice pilots	Yes	Α	not available	0
	Cascade occurs	No	Α	not available	0
Comments o	f test pilot				
	Comments	no		no	



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