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Flight test r	report: EN
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			BUREAU VERITAS Certification	
Manufacturer	PRO-Design, Hofbauer GmbH.	Certification number	PG_0717.2013	20
Address	Zimmeterweg 4 6020 Innsbruck Austria	Date of flight test	26. 09. 2013	
Representative	None	Place of test	Villeneuve	
Glider model	Cuga 2 85	Classification	Α	
Trimmer	•	Classification	7	
IIIIIIIei	no			
	Test pilot	Thurnheer Claude	Zoller Alain	
	Harness	Sky Paragliders - Reverse 2 M	2 Sky Paragliders - Axel II M	
	Total weight in flight (kg)	85	105	
1. Inflation/Take-off		A		
Rising behaviour		Smooth, easy and constant rising	A Smooth, easy and constant rising A	
Special take off technique	required	No	A No A	
2. Landing		A		
Special landing technique	required	No	A No A	
3. Speed in straight fligh	t	Α		
Trim speed more than 30 l	km/h	Yes	A Yes A	
Speed range using the cor	ntrols larger than 10 km/h	Yes	A Yes A	
Minimum speed		Less than 25 km/h	A Less than 25 km/h A	
4. Control movement		Α		
Max. weight in flight up to	80 kg			
Symmetric control pressur	e / travel	not available	0 not available 0	
Max. weight in flight 80 kg	to 100 kg			
Symmetric control pressur	e / travel	Increasing / greater than 60 cm	A not available 0	
Max. weight in flight greate	er than 100 kg			
Symmetric control pressur	e / travel	not available	0 Increasing / greater than 65 cm A	_
5. Pitch stability exiting a	accelerated flight	Α		
Dive forward angle on exit		Dive forward less than 30°	A Dive forward less than 30° A	
Collapse occurs		No	A No A	
flight	ng controls during accelerated	Α		
Collapse occurs		No	A No A	_
7. Roll stability and dam	ping	Α		
Oscillations	-	Reducing	A Reducing A	
8. Stability in gentle spira		Α		
Tendency to return to strai	• •	Spontaneous exit	A Spontaneous exit A	
9. Behaviour in a steeply	banked turn	A		
Sink rate after two turns		12 m/s to 14 m/s	A 12 m/s to 14 m/s A	
10. Symmetric front colla	apse	A Decking back loss than 45°		
Entry		Rocking back less than 45°	A Rocking back less than 45° A	
Recovery	/ Change of course	Spontaneous in less than 3 s	A Spontaneous in less than 3 s A Dive forward 0° to 30° / Keeping	
Dive forward angle on exit	I Change of course	Dive forward 0° to 30° / Keeping course	A Dive forward 0° to 30° / Keeping A course	

No

Cascade occurs With accelerator А

A No

Entry	Deaking back loss than 45°	^	Deaking back loss than 45°	^
Entry	Rocking back less than 45°	A A	Rocking back less than 45°	A A
Recovery Dive forward angle on exit / Change of course	Spontaneous in less than 3 s Dive forward 0° to 30° / Keeping	A	Spontaneous in less than 3 s Dive forward 0° to 30° / Keeping	A
	course		course	
Cascade occurs	No	A	No	A
11. Exiting deep stall (parachutal stall)	Α			
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	A	No	A
12. High angle of attack recovery	A Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Recovery Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	A	~		~
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	Α	Less than 45°	A
Line tension	Most lines tight	Α	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 0° to 15° $$	Α	Less than 90° / Dive or roll angle 0° to 15° $$	A
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	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	Less than 90° / Dive or roll angle 15° to 45°	A
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	Less than 90° / Dive or roll angle 15° to 45°	A	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	А	No	A
Twist occurs	No	Α	No	Α
Cascade occurs	No	A	No	A
With 75% collapse and accelerator			Less then 00% / Diverse "	
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
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. Directional control with a maintained asymmetric collapse	A		N	
Able to keep course	Yes	A	Yes	A
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 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	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	Α			
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	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
21. Big ears in accelerated flight	А			
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	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
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	А
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		17	
23. Alternative means of directional control	А			
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				