FTR - Flight Test Report

Dieser Prüfbericht darf ohne schriftliche Zustimmung der EAPR nicht, auch nicht auszugsweise, vervielfältigt werden.

Manufacturer		Type testing No.	EAPR-GS-0337/15
	ICARO paragliders Hochriesstraße 1 D-83126 Flintsbach	serial number	09x-ridef122
Model	Aquila 22	Lagation	Walensee
		Location	Schruns und Walensee



Rev. 2.2 - 09.10.2014 EAPR GmbH - Marktstr. 11 D-87730 Bad Grönenbach - Germany

Date of testing	1314.11.2014	Minimum take off weight 80 kg			Maximum take off weight 105 kg			
Testpilot		Mike Küng			Anselm Rauh			
Harness		Eapr-Test Equipment			EAPR leicht			
Pilot's take off weig	ht	80	kg		106	kg		



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Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation	
1. Inflation / take-off - 4.4.1						
Rising behavior	ising behavior		В	Easy rising, some pilot correction is required	В	
Special take off technique required		No	Α	No	Α	
2. Landing - 4.4.2						
Special landing technique required		No	А	No	А	
3. Speeds in straight flight - 4.4.3						
Trim speed more than 30km/h		Yes	A	Yes	l A	
Speed range using the controls larger than 10km	/h	Yes	A	Yes	A	
Minimum speed		Less than 25 km/h	Α	25 km/h to 30 km/h	В	
4. Control movement - 4.4.4		2000 than 20 talkin	,,,	20 14111110 00 141111		
Max. weight in flight up to 80kg			-		-	
Max. weight in flight 80 to 100kg		Increasing > 60cm	А		-	
Max. weight in flight greater than 100kg			-	Increasing 50cm - 65cm	С	
5. Pitch stability exiting accelerated flight - 4.	4.5					
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α	
Collapse occurs		No	A	No	A	
6. Pitch stability operating controls during ac	celerated	light - 4.4.6				
Collapse occurs		No	Α	No	Α	
7. Roll stability and damping - 4.4.7						
Oscillations		Reducing	A	Reducing	A	
8. Stability in gentle spirals - 4.4.8		rieducing	Α	Heducing		
, , ,		I Occade and the		I Occasional and the second	_	
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α	
9. Behaviour exiting a fully developed spiral of	live - 4.4.	No immediate reaction				
	nitial response of glider (first 180°)		В	Immediate increase in rate of turn	C	
Tendency to return to straight flight		Spontaneous exit	A B	Turn remains constant With pilot action		
Turn angle to recover normal flight		720° to 1080°, spontaneous recovery	В	with pilot action	D	
10. Symmetric front collapse - 4.4.10						
Folding lines used		No		No		
Entry	~ 30%	Rocking back less than 45°	Α	Rocking back less than 45°	А	
Recovery	∵ peeds	Spontaneous in 3 to 5 sec	В	Spontaneous in less than 3 sec	Α	
Dive forward angle on exit	- E	30° - 60° Entering a turn of less than 90°	В	0° - 30° Keeping course	A	
Cascade occurs Entry	_	No Rocking back less than 45°	A	No Rocking back less than 45°	A	
Recovery	%09 < p	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В	
Dive forward angle on exit	rim speed	30° - 60° Entering a turn of less than 90°	В	0° - 30° Keeping course	Α	
Cascade occurs	ij	No	A	No	A	
Entry	20%	Rocking back less than 45°	A	Rocking back less than 45°	A	
Recovery	accelerated > 50	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В	
Dive forward angle on exit	Selens	30° - 60° Entering a turn of less than 90°	В	30° - 60° Entering a turn of less than 90°	В	
Cascade occurs	acc	No	Α	No	Α	
11. Exiting deep stall (parachutal stall) - 4.4.1	1	1				
Deep stall achieved		Yes		Yes		
Recovery		Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α	
Dive forward angle on exit		30° - 60°	В	30° - 60°	В	
Change of course		Changing course less than 45°	Α	Changing course less than 45°	Α	

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Section Sect	12. High angle of attack recovery - 4.4.12									
1. Recovery from a developed in stat - 4.4.13 20 10 10 10 10 10 10 10	Recovery	Spontaneous in less than 3 sec			Α	Spontaneous in less than 3 sec			Α	
1. Recovery from a developed in stat - 4.4.13 20 10 10 10 10 10 10 10	*		·			Α	· ·			Α
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Concess count or fire reciting on the county Constitution Co										
Recent particles Description Process Test										
1. Automatic cologos (continue) and in-initiation 150										
Part			Most lines tight			Α	Most lines tight			Α
District Control and tile - Inflation Profession District Control and any and concess District Control and any and any and any and any and any any and any any and any any and any			I No.				I Na			
Particulation to believe					150 450	В			150 450	_
No	Change of course until re-initation	esdi	90 - 160	Dive or roll angle	15 - 45	В	< 90	Dive or roll angle	15 - 45	A
No	Re-inflation behavior	colla	Spontaneous re-inflation		Α	Spontaneous re	-inflation		Α	
No	u u	m sp 50%	No No							
No		tr max				No				
Sports are compared to course or sufficiency of the course of the cour	Cascade occurs									
No	Change of course until re-inflation	o o	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	45° - 60°	С
No	Do inflation behavior	id, llaps	Sportonogua ra	inflation	1	۸	Cooptonoous ro	inflation		۸
No		oo %		iiiiatioii			1 -	-IIIIatioii		
No		trim x 75								
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A Sportameous re-inflation	Cascade occurs		No			А	No			A
No	Change of course until re-inflation	9	90° - 180°	Dive or roll angle	15° - 45°	В	< 90°	Dive or roll angle	15° - 45°	Α
No	Re-inflation behavior	ed, llaps	Spontaneous ro	inflation	l .	Δ	Spontaneous	-inflation		Δ
No		eleral % co					·	αιιστι		
No		acce x 50								
Second course until re-infation plane of course or until re-infation behavior Second course Second cours	Twist occurs	ma				Α				
Pacification behavior					450 000				450 000	
No	Change of course until re-inflation	bse	90° - 180°	Dive or roll angle	45° - 60°	C	90° - 180°	Dive or roll angle	45° - 60°	C
No	Re-inflation behavior	ated	Spontaneous re-	inflation		Α	Spontaneous re	-inflation		Α
No	Total change of course	seler '5% (Less than 360°			Α				Α
No		ao 7 xer								
Also to keep course straight Yes A Yes A Yes A A Yes A A Yes A A No Around a control range between turn and stal or spin More than 50% of the symmetric control travel A No Around angle on exit Assistance of the symmetric assistance in less than 3 sec A No Around angle on exit Assistance in less than 3 sec A Around angle on exit Behaviour during big ears Assistance in less than 3 sec A Around angle on exit Behaviour during big ears Assistance in less than 3 sec A Around angle on exit Behaviour during big ears Assistance in 28 standard technique Assistance in 18 sta		_								
180° turn away from the collapsed side possible in 10 sec Yes A Yes A A No A	15. Directional control with a maintained asymmetry	metric col	lapse - 4.4.15							
### Anount of control range between turn and stall or spin 16. Trim speed spin tendency - 4.4.16 Spin occurs No No A Remains date release No A Stops spinning in less than 90° A Stops spinning in less than 90° A Stops spinning in less than 90° A No A No A No A No A No A Remains stable with straight span A Behaviour before release Remains stable with straight span A Recovery Spontaneous in less than 3 sec A No A Recovery Spontaneous in less than 3 sec A No A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A No A Recovery Spontaneous in less than 3 sec A No A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Dive forward angle on exit O° -30° A No A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Dive forward angle on exit O° -30° A C Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Recovery Spontaneous in less than 3 sec A Remains stable with straight span A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Remains stable with straight span A Recovery Spontaneous in less than 3 sec A Recovery Spontaneous in less than 3 sec	Able to keep course straight		Yes			Α	Yes			Α
16. Trim speed spin tendency - 4.4.16 Spin occurs	180° turn away from the collapsed side possible in	10 sec	Yes			Α	Yes	Α		
16. Trim speed spin tendency - 4.4.16 Spin occurs	Amount of control range between turn and stall or	nias	More than 50% o	of the symmetric	control travel	Α	More than 50% of the symmetric control travel			А
Spin occurs No A No				,				,		
17. Low speed spin tendency - 4.4.17 Spin occurs No A No No A			No			Α	No			l A
Spring Stops spring in less than 90° A No										
Spin rotation angle after release Stops spinning in less than 90° A Stops spinning in less than 90° A 19. Bilme-stall -4.4.19 The spin-stall -4.4.19 The spin-stall -4.4.19 The spin course before release C hanging course less than 45° A Changing course less than 45° A Behaviour before release R emains stable with straight span A Recovery Spontaneous in less than 3 sec A Spontaneous in less tha	Spin occurs		No			Α	No			Α
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