FTR - Flight Test Report

Manufacturer	independence gliders for real-pilots	Type testing No.	EAPR-GS-0093/14		
	Fly Market GmbH & Co.KG Am Schönebach 3 D-87637 Elsenberg	serial number	2k13-cr-xl-112		
Model	Cruiser 3 XL	Lagation	Kössen		
		Location	Achensee		



Rev. 2.1 - 10.05.2013 EAPR GmbH - Marktstr. 11 D-87730 Bad Grönenbach - Germany

Date of testing	23.02.2014	Minimum take off w 110 kg	eight	Maximum take off weight 135 kg		
Testpilot		Anselm Rauh		Mike Küng	-	
Harness		EAPR Testequipment		EAPR-Testequipment	1 To 1	
Pilot's take off weigh	ıt	110 kg	1	135 kg	A e	

Classification	Α
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Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation
1. Inflation / take-off - 4.1.1					
Rising behavior		Smooth, easy and constant rising		Smooth, easy and constant rising	А
Special take off technique required		No	Α	No	Α
2. Landing - 4.1.2					
Special landing technique required		No	А	No	А
3. Speeds in straight flight - 4.1.3					
Trim speed more than 30km/h		Yes	А	Yes	А
Speed range using the controls larger than 10km	h'	Yes	А	Yes	А
Minimum speed		Less than 25 km/h A Less than 25 km/h			А
4. Control movement - 4.1.4					
Max. weight in flight up to 80kg			-		-
Max. weight in flight 80 to 100kg			-		-
Max. weight in flight greater than 100kg		Increasing >65 cm	А	Increasing >65 cm	А
5. Pitch stability exiting accelerated flight - 4.1	.5		<u>'</u>		
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No A No		No	Α
6. Pitch stability operating controls during acc	elerated f	light - 4.1.6			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping - 4.1.7					
Oscillations		Reducing	А	Reducing	Α
8. Stability in gentle spirals - 4.1.8					
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steeply banked turn - 4.1.9					
Sink rate after two turns		Up to 12m/s	А	12m/s to 14m/s	А
10. Symmetric front collapse - 4.1.10					
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	trim speed	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	<u>.</u> <u>E</u>	0° - 30° Keeping course	Α	0° - 30° Keeping course	А
Cascade occurs	=	No	A	No	A
Entry	ō	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	accelerated	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	ce	0° - 30° Keeping course	А	0° - 30° Keeping course	А
Cascade occurs	ā	No	Α	No	А
11. Exiting deep stall (parachutal stall) - 4.1.11					

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Deep stall achieved		Yes				Yes			
Recovery		Spontaneous in less than 3 sec			А	A Spontaneous in less than 3 sec			Α
Dive forward angle on exit		0° - 30°			Α	0° - 30°			A
Change of course		Changing course less than 45°		Α	Changing course less than 45°			Α	
Cascade occurs		No			Α	No			Α
12. High angle of attack recovery - 4.1.12		T .				ı			
Recovery		Spontaneous in les	ss than 3 sec		Α	Spontaneous in	less than 3 sec		Α
Cascade occurs		No			А	No			Α
13. Recovery from a developed full stall - 4.1.1	3	Tax aas				T			
Dive forward angle on exit Collapse		0° - 30° No collapse			A	0° - 30° No collapse			A
Cascade occurs (other than collapse)		No			A	No .			A
Rocking backward		Less than 45° Most lines tight			A	Less than 45° Most lines tight			A
Line tension 14. Asymmetric collapse (trim speed) - 4.1.14		Wost lines tight			А	Wost lines tight			Α
,	1	T	1						
Change of course until re-inflation	trim speed, max 50% collapse	< 90°	Dive or roll angle	0° - 15°	A	< 90°	Dive or roll angle	0° - 15°	A
Re-inflation behavior	eeds %	Spontaneous re-inflation			Α	Spontaneous re-inflation Less than 360° No			Α
Total change of course Collapse on the opposite side occurs	iii 8	Less than 360°			A				A
Twist occurs	nax	No			A A	No			A
Cascade occurs		No			A	No			A
Change of course until re-inflation	Ф	< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re-in	flation		A	Spontaneous re	-inflation		Α
Total change of course	3% c	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	trim tx 75	No			A	No			A
Twist occurs	na B	No			Α	No			Α
Cascade occurs		No			Α	No			Α
Change of course until re-inflation	esc	< 90°	Dive or roll angle	0° - 15°	А	< 90°	Dive or roll angle	15° - 45°	А
Re-inflation behavior	accelerated, max 50% collapse		Spontaneous re-inflation			Spontaneous re-inflation			Α
Total change of course	Scele 50%	Less than 360° No			A	Less than 360° No			A
Collapse on the opposite side occurs Twist occurs	пах	No			A A	No			A A
Cascade occurs		No			A	No			A
Change of course until re-inflation	esc	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	15° - 45°	А
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re-inflation			Α	Spontaneous re	-inflation		Α
Total change of course	celei	Less than 360°			А	Less than 360° No			Α
Collapse on the opposite side occurs	ac ac	No No			A				A
Twist occurs Cascade occurs	Ε	No			A A	No No			A A
15. Directional control with a maintained asymmetry	metric col	llapse - 4.1.15				•			
Able to keep course straight		Yes			А	Yes			Α
180° turn away from the collapsed side possible in 10 sec		Yes			Α	Yes			А
Amount of control range between turn and stall or spin		More than 50% of the symmetric control travel			А	More than 50%	of the symmetric o	ontrol travel	Α
16. Trim speed spin tendency - 4.1.16									
Spin occurs		No			Α	No			Α
17. Low speed spin tendency - 4.1.17 Spin occurs		No			l A	No			А
18. Recovery from a developed spin - 4.1.18		1 : : :				1			
Spin rotation angle after release		Stops spinning in I	less than 90°		А	Stops spinning i	n less than 90°		Α
Cascade occurs		No			Α	No			Α
19. B-line-stall - 4.1.19		Changing	occ than 45°			Changing	o loce than 450		
Change of course before release Behaviour before release		Changing course less than 45° Remains stable with straight span			A	Changing course less than 45° Remains stable with straight span			A
Recovery		Spontaneous in less than 3 sec			A	Spontaneous in less than 3 sec			A
Dive forward angle on exit		0° - 30°			Α	0° - 30°			Α
Cascade occurs		No			Α	No			Α
20. Big ears - 4.1.20		I							
Entry procedure Behaviour during big ears		Special device required Stable flight			A	Special device required Stable flight			A
		Spontaneous in less than 3 sec			Spontaneous in less than 3 sec				
		•		A	·			A	
Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21		0° - 30°			А	0° bis 30°			А
		Special device required		А	Special device r	equired		А	
Zimiy procedure		Stable flight			Stable flight			А	
Behaviour during big ears		Stable flight			Α	Otable light			
		Stable flight Spontaneous in les	ss than 3 sec		A	Spontaneous in	less than 3 sec		Α
Behaviour during big ears Recovery Dive forward angle on exit	-1		ss than 3 sec				less than 3 sec		A A
Behaviour during big ears Recovery	ator while	Spontaneous in les	ss than 3 sec		А	Spontaneous in	less than 3 sec		

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Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	Α	
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	А	Less than 720°, spontaneous recovery	Α	
23. Alternative means of directional control -	4.1.23				
180° turn achievable in 20 sec	Yes	Α	Yes	А	
Stall or spin occurs	No	Α	No	Α	
24. Any other flight procedure and/or configur	ration described in the user's manual - 4.1.24				
Procedure works as descibed		NA		NA	
Procedure suitable for novice pilots		NA		NA	
Cascade occurs		NA		NA	
25. Remarks of testpilot:					
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