FTR - Flight Test Report Dieser Prüfbericht darf ohne schriftliche Zustimmung der EAPR nicht, auch nicht au

Manufacturer	independence gliders for real-pilots	Type testing No.	EAPR-GS-0145/14
	Fly Market GmbH & Co. KG Am Schönebach 3 D-87637 Elsenberg	serial number	2k13-sample-cr-3-29134
Model	Cruiser3 L	Lastin	Achensee
	Location		Hopfgarten



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

Date of testing	28.02.2014	Minimum take off weight 90 kg			Maximum take off weight 115 kg		
Testpilot		Mario Eder			Anselm Rauh		
Harness		EAPR		8	EAPR Testequipment		
Pilot's take off weigh	t	90	kg		115 kg	1	

Classification A

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	А	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	Α	No	Α
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 A Yes		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				
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operating controls during acc	elerated f	flight - 4.1.6			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping - 4.1.7					
Oscillations		Reducing	А	Reducing	А
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		1 .	<u> </u>		
Entry	1	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	Α
Dive forward angle on exit	<u>.</u> E	0° - 30° Keeping course	А	0° - 30° Keeping course	А
Cascade occurs	=	No	A	No	A
Entry	ъ	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	cce	0° - 30° Keeping course	Α	0° - 30° Keeping course	А
Cascade occurs	Ø	No	Α	No	А
11. Exiting deep stall (parachutal stall) - 4.1.11					

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Describility of the state of th		I v				Lv.			
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	0° - 30°		Α	0° - 30°			Α		
Change of course Cascade occurs	Changing course less than 45° No		A	Changing course less than 45° No			A		
12. High angle of attack recovery - 4.1.12									
Recovery		Spontonogue in lose than 2 and		А	Spontaneous in	less than 3 coc		А	
Cascade occurs		Spontaneous in less than 3 sec			No No	iess triair 5 sec			
13. Recovery from a developed full stall - 4.1.1	3	INO			А	INO			А
Dive forward angle on exit	<u> </u>	0° - 30°			А	0° - 30°			А
Collapse		No collapse			A	No collapse			A
Cascade occurs (other than collapse)		No			A	No			A A
Rocking backward Less than 45° Line tension Most lines tight			A	A Less than 45° A Most lines tight					
14. Asymmetric collapse (trim speed) - 4.1.14									Α
Change of course until re-inflation	m	< 90°	Dive or roll angle	0° - 15°	Α	< 90°	Dive or roll angle	0° - 15°	А
	trim speed, max 50% collapse	Coordon on infla	-4:		A	C===t=================================	inflation		^
Re-inflation behavior	trim speed, x 50% colla	Spontaneous re-inflation				Spontaneous re-inflation			Α
Total change of course Collapse on the opposite side occurs	rim (Less than 360° No			A	Less than 360° No No			A
Twist occurs	max t	No			A				A
Cascade occurs		No			А	No			Α
Change of course until re-inflation	88	< 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-infla	ation		А	Spontaneous re-	-inflation		Α
Total change of course	speed, 5% colla	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	trim IX 75	No No			A	No No			A
Twist occurs	Па	No			Α	No			Α
Cascade occurs		No			А	No			Α
Change of course until re-inflation	esd	< 90°	Dive or roll angle	0° - 15°	Α	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re-infla	ation		Α	Spontaneous re-	-inflation		Α
Total change of course	celer 20%	Less than 360°			А	Less than 360°			Α
Collapse on the opposite side occurs	acc ax 5	No			A	No			A
Twist occurs Cascade occurs	٤	No No			A	No No			A
Change of course until re-inflation	Φ		Dive or roll angle	15° - 45°	A	< 90°	Dive or roll angle	15° - 45°	A
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re-inflation Less than 360°		А	Spontaneous re-	inflation		Α	
Total change of course	selera 5% c			Α	Less than 360°			Α	
Collapse on the opposite side occurs	acc ax 7:	No			Α	No			Α
Twist occurs Cascade occurs	Ĕ	No No			A	No No			A A
15. Directional control with a maintained asym	metric col				A				A
Able to keep course straight		Yes			Α	Yes			Α
180° turn away from the collapsed side possible in	10 sec	Yes			Α	Yes			Α
, , ,		More than 50% of the symmetric control travel		A	More than 50% of the symmetric control travel		A		
16. Trim speed spin tendency - 4.1.16									
Spin occurs		Lau							
17. Low speed spin tendency - 4.1.17		No			А	No			Α
Spin occurs		•							
18 Recovery from a developed chin - 4.1.19		No			A	No No			A
18. Recovery from a developed spin - 4.1.18		No I	an their 00°		A	No	n loos there are		A
Spin rotation angle after release		No Stops spinning in les	ss than 90°		A	No Stops spinning i	n less than 90°		A
		No I	ss than 90°		A	No	n less than 90°		A
Spin rotation angle after release Cascade occurs		No Stops spinning in les			A	No Stops spinning i			A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19		No Stops spinning in les	ss than 45°		A A	No Stops spinning i No Changing course			A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release		Stops spinning in les No Changing course les	ss than 45° straight span		A A A	No Stops spinning i No Changing course	e less than 45° with straight span		A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30°	ss than 45° straight span		A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span		A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less	ss than 45° straight span		A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No	ss than 45° straight span s than 3 sec		A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No	e less than 45° with straight span less than 3 sec		A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requir	ss than 45° straight span s than 3 sec		A A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re	e less than 45° with straight span less than 3 sec		A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requii	straight span than 3 sec		A A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight	e less than 45° with straight span less than 3 sec		A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requii Stable flight Spontaneous in less	straight span than 3 sec		A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec		A A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requii	straight span than 3 sec		A A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight	e less than 45° with straight span less than 3 sec		A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requir Stable flight Spontaneous in less 0° - 30°	ss than 45° straight span than 3 sec red than 3 sec		A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21 Entry procedure		Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requir Stable flight Spontaneous in less 0° - 30° Special device requir	ss than 45° straight span than 3 sec red than 3 sec		A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21		No Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requir Stable flight Spontaneous in less 0° - 30°	ss than 45° straight span than 3 sec red than 3 sec		A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A
Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21 Entry procedure		Stops spinning in les No Changing course les Remains stable with Spontaneous in less 0° - 30° No Special device requir Stable flight Spontaneous in less 0° - 30° Special device requir	ss than 45° straight span is than 3 sec red		A A A A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A A A
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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
23. Alternative means of directional control - 4	1.1.23			
180° turn achievable in 20 sec	Yes	А	Yes	Α
Stall or spin occurs	No	А	No	Α
24. Any other flight procedure and/or configura	ation 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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