Manufacturer	gliders for cat-pilots	Type testing No.	EAPR-GS-7693/13	A A			
		Location	Schruns	XEAPR			
Model	Geronimo XL	Bad Grönenbach:	01.03.13	Musterprüfstelle Rev. 2.0 - 25.01.2013			

EAPR GmbH - Marktstr. 11 - D-87730 Bad Grönenbach - Germany

	Minimum take off w	eight	Maximum take off weight			
Date of testing	30.01.13		28.02.13			
Testpilot	Hannes Tschofen		Anselm Rauh			
Harness	Academy Test Equipment		EAPR Testequipment			
Pilot's take off weight	110 kg		135 kg			

Classification

В



Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight		Evaluation
1. Inflation / take-off - 4.1.1						
ising behavior		Smooth, easy and constant rising	А	Smooth, easy and constant rising		А
Special take off technique required		No	A	No		A
2. Landing - 4.1.2		•				
Special landing technique required		No		No		A
3. Speeds in straight flight - 4.1.3						
Trim speed more than 30km/h		Yes	A	Yes	A	
Speed range using the controls larger than 10km/h		Yes	А	Yes	А	
Minimum speed		Less than 25 km/h	A	Less than 25 k	(m/h	A
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°	A	Dive forward le	ess than 30°	A
Collapse occurs		No	А	No		A
6. Pitch stability operating controls during acce	elerated fi	ight - 4.1.6				
Collapse occurs		No	A	No		A
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		More than 14m/s	В	More than 14m	n/s	В
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	A	Spontaneous i	in less than 3 sec	A
Dive forward angle on exit	Ĕ.	0° - 30° Keeping course	A	0° - 30°	Keeping course	А
Cascade occurs	ŧ	No	A	No		A
Entry	q	Rocking back less than 45°	A	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	A	30° - 60°	Keeping course	В
Cascade occurs	ä	No	A	No	• • •	A

Deep stall achieved		Yes				Yes			
Recovery	Spontaneous in less than 3 s		ss than 3 sec		А	Spontaneous in less than 3 sec			А
Dive forward angle on exit		Spontaneous in less than 3 sec 0° - 30°			A	0° - 30°			A
Change of course		Changing course le	ess than 45°		A	0° - 30° Changing course less than 45°			A
Cascade occurs		No			А	No			A
12. High angle of attack recovery - 4.1.12		1							
Recovery		Spontaneous in les	ss than 3 sec		A	Spontaneous in	less than 3 sec		A
Cascade occurs		No			А	No			Α
13. Recovery from a developed full stall - 4.1.1	3	30° - 60°				000 000			_
Dive forward angle on exit Collapse		No collapse			B A	30° - 60° No collapse			B A
Cascade occurs (other than collapse)		No			А	No			А
Rocking backward Line tension		Less than 45° Most lines tight			A	Less than 45° Most lines tight			A
14. Asymmetric collapse (trim speed) - 4.1.14		incot infoo tight			A	nicot nico tigitt			
Change of course until re-inflation		< 90°	Dive or roll angle	0° - 15°	А	< 90°	Dive or roll angle	0° - 15°	А
	trim speed, max 50% collapse			0 10	,,	100		0 10	
Re-inflation behavior	peed	Spontaneous re-in	flation		A	Spontaneous re-	inflation		A
Total change of course	im s 50%	Less than 360°			A A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	tr max	No	No No			No No			A
Cascade occurs	_	No			A A	No			A
Change of course until re-inflation	Q	< 90°	Dive or roll angle	15° - 45°	А	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re-in	flation		Δ	Spontaneous ro	inflation		^
	spee % col		nduon		A	Spontaneous re-inflation			A
Total change of course Collapse on the opposite side occurs	trim < 75%	Less than 360° No			A	Less than 360° No			A
Twist occurs	t max	No			А	No			А
Cascade occurs		No			А	No			A
Change of course until re-inflation	ose	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	15° - 45°	А
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re-inflation			А	Spontaneous re-inflation			А
Total change of course	elera 0% c	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	acc ax 5	No			A	No			A
Twist occurs Cascade occurs	E	No No			A	No No			A
Change of course until re-inflation	se	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re-in	flation		А	Spontaneous re-	inflation		А
Total change of course	celer 5%	Less than 360°			А	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	ac lax 7	No No			A	No No			A
Cascade occurs	u	No			A	No			A
15. Directional control with a maintained asymmetry	netric col	llapse - 4.1.15							
Able to keep course straight		Yes			A	Yes			A
180° turn away from the collapsed side possible in	10 sec	Yes			A	Yes			A
Amount of control range between turn and stall or	spin	More than 50% of t	the symmetric co	ontrol travel	А	More than 50% of	of the symmetric c	ontrol travel	А
16. Trim speed spin tendency - 4.1.16						•			
Spin occurs		No			A	No			A
17. Low speed spin tendency - 4.1.17 Spin occurs		No			Α	No			A
18. Recovery from a developed spin - 4.1.18		1.10							~
Spin rotation angle after release									
		Stops spinning in I	ess than 00°		Δ	Stops spinning in	less than 00°		Δ
Cascade occurs		Stops spinning in I	ess than 90°		A	Stops spinning i	n less than 90°		A
Cascade occurs 19. B-line-stall - 4.1.19		Stops spinning in I No	ess than 90°		A A	Stops spinning in	n less than 90°		A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release									
19. B-line-stall - 4.1.19		No	ess than 45°		A	No Changing course			A
19. B-line-stall - 4.1.19 Change of course before release		No Changing course lo	ess than 45° Ih straight span		A	No Changing course	e less than 45° with straight span		A
19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit		No Changing course I Remains stable wit Spontaneous in les 0° - 30°	ess than 45° Ih straight span		A A A A A	No Changing course Remains stable v Spontaneous in 0° - 30°	e less than 45° with straight span		A A A A A
19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		No Changing course le Remains stable wit Spontaneous in les	ess than 45° Ih straight span		A A A A	No Changing course Remains stable v Spontaneous in	e less than 45° with straight span		A A A A
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 Changing course le Remains stable wit Spontaneous in les 0° - 30° No	ess than 45° Ih straight span ss than 3 sec		A A A A A A	No Changing course Remains stable v Spontaneous in 0° - 30° No	e less than 45° with straight span less than 3 sec		A A A A A A
19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		No Changing course I Remains stable wit Spontaneous in les 0° - 30°	ess than 45° Ih straight span ss than 3 sec		A A A A A	No Changing course Remains stable v Spontaneous in 0° - 30°	e less than 45° with straight span less than 3 sec		A A A A A
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 Changing course le Remains stable wit Spontaneous in les 0° - 30° No	ess than 45° Ih straight span ss than 3 sec		A A A A A A	No Changing course Remains stable v Spontaneous in 0° - 30° No	e less than 45° with straight span less than 3 sec		A A A A A A
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 Changing course le Remains stable wit Spontaneous in les 0° - 30° No Special device requ	ess than 45° th straight span ss than 3 sec uired		A A A A A A	No Changing course Remains stable of 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
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 Changing course le Remains stable wit Spontaneous in les 0° - 30° No Special device requ Stable flight	ess than 45° th straight span ss than 3 sec uired		A A A A A A A	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 A
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 Changing course I Remains stable wit Spontaneous in les 0° - 30° No Special device requ Stable flight Spontaneous in les 0° - 30°	ess than 45° th straight span ss than 3 sec uired ss than 3 sec		A A A A A A A A A A	No Changing course Remains stable of 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
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 Changing course I Remains stable wit Spontaneous in les 0° - 30° No Special device requ Stable flight Spontaneous in les	ess than 45° th straight span ss than 3 sec uired ss than 3 sec		A A A A A A A A A	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 equired less than 3 sec		A A A A A A A A
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 Changing course I Remains stable wit Spontaneous in les 0° - 30° No Special device requ Stable flight Spontaneous in les 0° - 30°	ess than 45° th straight span ss than 3 sec uired ss than 3 sec		A A A A A A A A A A	No Changing course Remains stable of 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
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		No Changing course I Remains stable wit Spontaneous in les 0° - 30° No Special device requ Stable flight Spontaneous in les 0° - 30° Special device requ	ess than 45° th straight span ss than 3 sec uired ss than 3 sec uired		A A A A A A A A A A A A	No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re	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 A
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 Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit		No Changing course I Remains stable wit Spontaneous in les 0° - 30° No Special device requ Stable flight Spontaneous in les 0° - 30° Special device requ Stable flight	ess than 45° th straight span ss than 3 sec uired ss than 3 sec uired		A A A A A A A A A A A	No Changing course Remains stable of Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight	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 A A
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 Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21 Entry procedure Behaviour during big ears Recovery	ttor while	No Changing course I Remains stable wit Spontaneous in les 0° - 30° No Special device requ Stable flight Spontaneous in les 0° - 30° Special device requ Stable flight Spontaneous in les	ess than 45° th straight span ss than 3 sec uired ss than 3 sec uired		A A A A A A A A A A A A A	No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight Spontaneous in	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 A A A

Tendency to return to straight flight	Spontaneous exit	A	Spontaneous exit	A
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	А	Less than 720°, spontaneous recovery	А
23. Alternative means of directional control -	4.1.23			
180° turn achievable in 20 sec	Yes	А	Yes	А
Stall or spin occurs	No	А	No	A
24. Any other flight procedure and/or configu	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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