Manufacturer	\sim	Type testing No.	EAPR-GS-7263/10	The second secon
		Date of testing	28.11.2009	AEAPRIL
Model	Prion 23	Location	Walensee	LBA Musterprüfstelle Gleitschirm - Motorschirm - Fallschirm

EAPR e.V - Marktstr. 11 - D-87730 Grönenbach - Germany

	Minimum take off we	eight	Maximum take off weight		
Testpilot	Mike Küng		Johannes Tschofen		
Harness	Academy-Gurtzeug	E.	Academy-Gurtzeug		
Pilot's take off weight	75 kg		100 kg		

Classification





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	A	No	A
2. Landing - 4.1.2					
Special landing technique required		No	A	No	A
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	А	Less than 25 km/h	А
4. Control movement - 4.1.4					
Max. weight in flight up to 80kg		Increasing > 55cm	А		-
Max. weight in flight 80 to 100kg			-	Increasing > 60cm	А
Max. weight in flight greater than 100kg			-		-
5. Pitch stability exiting accelerated flight - 4.1	.5	•			•
Dive forward angle on exit		Dive forward less than 30° A Dive forward less than 30°		Dive forward less than 30°	A
Collapse occurs		No	A	No	A
6. Pitch stability operating controls during acc	elerated fl	ight - 4.1.6			
Collapse occurs		No	A	No	A
7. Roll stability and damping - 4.1.7					
Oscillations		Reducing	А	Reducing	A
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	Up to 12m/s	А
10. Symmetric front collapse - 4.1.10		•			•
Entry	_	Rocking back less than 45°	А	Rocking back less than 45°	A
Recovery	trim speed	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	Ē	0° - 30° Keeping course	A	0° - 30° Keeping course	A
Cascade occurs		No	А	No	A
Entry	σ	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	rate	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A
Dive forward angle on exit	accelerated	0° - 30° Keeping course	A	0° - 30° Keeping course	A
Cascade occurs	Ø	No	A	No	A

11. Exiting deep stall (parachutal stall) - 4.1.11									
Deep stall achieved					Yes				
									^
Recovery		Spontaneous in less than 3 sec			A	Spontaneous in less than 3 sec			A
Dive forward angle on exit			a loss that 450		A	0° - 30°	- looo tha- 45°		A
Change of course Cascade occurs		Changing course No	e iess (nan 45°		A	Changing course No	e iess than 45°		A A
12. High angle of attack recovery - 4.1.12		110			A	110			A
		Spontaneous in	loss than 2 soc		А	Spontaneous in	loss than 3 soc		А
Recovery			less than 5 sec				less than 5 sec		
Cascade occurs	_	No			A	No			A
13. Recovery from a developed full stall - 4.1.1	3								
Dive forward angle on exit Collapse		0° - 30° No collapse			A	0° - 30° No collapse			A
Cascade occurs (other than collapse)		No			A	No collapse No			A
Rocking backward		Less than 45°			A	Less than 45°			A
Line tension		Most lines tight			А	Most lines tight			А
14. Asymmetric collapse (trim speed) - 4.1.14									
Change of course until re-inflation	Φ	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	0° - 15°	А
	trim speed, max 50% collapse								
Re-inflation behavior	collo	Spontaneous re-	-inflation		A	Spontaneous re-	-inflation		A
Total change of course	m st 20%	Less than 360°			А	Less than 360°			А
Collapse on the opposite side occurs	tri lax (No No			A	No No			A
Twist occurs Cascade occurs	٤ -	No			A	No			A A
			Dire or cell	150 450			Dive or roll angle	169 459	
Change of course until re-inflation	ose	< 90°	Dive or roll angle	15° - 45°	A	< 90°	uive or roll angle	15° - 45°	A
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re-	-inflation		А	Spontaneous re-	-inflation		А
Total change of course	spe % o	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	trim x 75	No			A	No			A
Twist occurs	ma	No			А	No			A
Cascade occurs		No			A	No			A
Change of course until re-inflation		< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	0° - 15°	А
	accelerated, max 50% collapse	< 30	Dive of foil angle	13 - 45	^	< 30	Dive of foil angle	0 - 15	^
Re-inflation behavior	ated	Spontaneous re-	-inflation		A	Spontaneous re-	-inflation		А
Total change of course	eler: 0% c	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	aco x 5(No			A	No			A
Twist occurs	ma	No			А	No			А
Cascade occurs		No		1	A	No			A
Change of course until re-inflation	ę	< 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		А	Spontaneous re-	-inflation		А
Total change of course	Bet erg bet by by by by by by by by by by by by by b		A	Less than 360°			A		
Collapse on the opposite side occurs	acce < 75	No			A	No No			A
Twist occurs	max	No			A				A
Cascade occurs		No			A	No			A
15. Directional control with a maintained asym	metric col	-							
Able to keep course straight		Yes			A	Yes			A
180° turn away from the collapsed side possible in	10 sec	Yes			A	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 control travel			А
16. Trim speed spin tendency - 4.1.16									
Spin occurs		No			А	No			А
17. Low speed spin tendency - 4.1.17									
Spin occurs		No			А	No			A
18. Recovery from a developed spin - 4.1.18									
Spin rotation angle after release Stops			Stops spinning in less than 90°			Stops spinning in less than 90°			А
Cascade occurs		No			A	No			A
19. B-line-stall - 4.1.19									
Change of course before release		Changing course	e less than 45°		А	Changing course	e less than 45°		A
Change of course before release Changing course less than 45° Behaviour before release Remains stable with straight span			A	Remains stable	A				
Recovery		Spontaneous in less than 3 sec			A	Spontaneous in less than 3 sec			A
Dive forward angle on exit		0° - 30°			A	0° - 30°			
Cascade occurs	•		A	No - 30	A A				
20. Big ears - 4.1.20									
		Constant of the	a multime of			Constitute of			
Entry procedure	Special device required			A	Special device required			A	
Behaviour during big ears		Stable flight		A	Stable flight			A	
Recovery		Spontaneous in less than 3 sec		А	Spontaneous in less than 3 sec			А	
Dive featured enals as suit		0° - 30°			A	0° bis 30°			A
Dive forward angle on exit									
21. Big Ears in accelerated flight - 4.1.21		1			А	Special davias -	equired		А
21. Big Ears in accelerated flight - 4.1.21		Special dovice -				Special device required			A
21. Big Ears in accelerated flight - 4.1.21 Entry procedure			equired			Out the distance			
21. Big Ears in accelerated flight - 4.1.21		Special device r	equired		A	Stable flight			A
21. Big Ears in accelerated flight - 4.1.21 Entry procedure					A	Stable flight Spontaneous in	less than 3 sec		A A
21. Big Ears in accelerated flight - 4.1.21 Entry procedure Behaviour during big ears		Stable flight					less than 3 sec		
21. Big Ears in accelerated flight - 4.1.21 Entry procedure Behaviour during big ears Recovery	ator while	Stable flight Spontaneous in			А	Spontaneous in	less than 3 sec		А

22. Behaviour exiting a steep spiral - 4.1.22				
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	A A
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	А	Less than 720°, spontaneous recovery	
23. Alternative means of directional control -	4.1.23			
180° turn achievable in 20 sec	Yes	А	A Yes	
Stall or spin occurs	No	A	No	A
24. Any other flight procedure and/or configur	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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