Manufacturer	\sim	Type testing No.	EAPR-GS-7509/12	A A
		Date of testing	16.11.2011	X EAPR !!
Model	lon 2 M	Location	Schruns	LBA Musterprüfstelle Gleitschirm - Motorschirm - Fallschirm

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

	Minimum take off w	eight	Maximum take off weight		
Testpilot	Hannes Tschofen	-	Anselm Rauh		
Harness	EAPR Equipment		EAPR Test Equipment		
Pilot's take off weight	100 kg		130 kg		

Classification

В



est-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	А	No	Α
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	A 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			-		-
Max. weight in flight 80 to 100kg		Increasing > 60cm	А	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°	A
Collapse occurs			А	No	А
6. Pitch stability operating controls during acce	elerated fl	ight - 4.1.6			
Collapse occurs		No	А	No	A
7. Roll stability and damping - 4.1.7					
Oscillations		Reducing	A	Reducing	A
8. Stability in gentle spirals - 4.1.8					
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	A
9. Behaviour in a steeply banked turn - 4.1.9					
Sink rate after two turns		Up to 12m/s	A	More than 14m/s	В
10. Symmetric front collapse - 4.1.10					
Entry	7	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	tri T	0° - 30° Keeping course	А	0° - 30° Keeping course	А
Cascade occurs	-	No	A	No	A
Entry	p	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	accelerated	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	acce	0° - 30° Keeping course	A	30° - 60° Keeping course	В
Cascade occurs	10	No	A	No	A

11. Exiting deep stall (parachutal stall) - 4.1.11 Deep stall achieved		Yes				Yes			
				^				•	
Recovery		Spontaneous in less than 3 sec			A	Spontaneous in less than 3 sec 0° - 30°			A
Dive forward angle on exit		0° - 30°		A				A	
Change of course Cascade occurs		Changing course less than 45° No		A A	Changing course less than 45° No			A A	
12. High angle of attack recovery - 4.1.12		110							
									•
Recovery		Spontaneous in I	ess than 3 sec		A	Spontaneous in less than 3 sec			A
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	30° - 60°			B
Collapse Cascade occurs (other than collapse)		No collapse			A	No collapse No			A 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	a)	< 90°	Dive or roll angle	0° - 15°	А	< 90°	Dive or roll angle	15° - 45°	А
-	trim speed, max 50% collapse	-	1		-	-			
Re-inflation behavior	speed, % colla	Spontaneous re-	inflation		A	Spontaneous re-	inflation		A
Total change of course	trim sl x 50%	Less than 360°		А	Less than 360°			A	
Collapse on the opposite side occurs Twist occurs	tri lax (No No			A	No No			A
Cascade occurs	٤	No			A	No			A A
		< 90°	Dive or roll angle	15° - 45°		90° - 180°	Dive or roll angle	15° - 45°	В
Change of course until re-inflation	ose	< 90-	Dive or roll angle	10" - 45"	A	90 - 180°	or roll angle	10" - 45"	В
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re-	inflation		А	Spontaneous re-	inflation		А
Total change of course	spe % c	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	trim tx 75	No			A	No			A
Twist occurs	ma	No			А	No			A
Cascade occurs		No			Α	No			A
Change of course until re-inflation	0	< 90°	Dive or roll angle	0° - 15°	А	< 90°	Dive or roll angle	15° - 45°	А
	accelerated, max 50% collapse								
Re-inflation behavior	accelerated, x 50% collap	Spontaneous re-	inflation		A	Spontaneous re-	inflation		A
Total change of course	seler 0%	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	Ĕ	No No			A	No No			A
			r		A				A
Change of course until re-inflation	se	< 90°	Dive or roll angle	15° - 45°	A	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re-	inflation		А	Spontaneous re-	inflation		А
Total change of course	elera % c	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	acci x 75	No No			A	No No			A
Twist occurs	Ĕ				A				A
Cascade occurs		No			A	No			A
15. Directional control with a maintained asym Able to keep course straight	metric col	Yes			Δ.	Yes			Δ.
					A				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 the symmetric control travel		^	More than 50% of the symmetric control travel				
16. Trim speed spin tendency - 4.1.16					A			onuoruavei	A
Spin occurs					A				A
		No				No			
17. Low speed spin tendency - 4.1.17		No			A	No			A
17. Low speed spin tendency - 4.1.17 Spin occurs		No No				No No			
					A				A
Spin occurs 18. Recovery from a developed spin - 4.1.18		No			A	No	less than 00°		A
Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release		No Stops spinning ir	I less than 90°		A A A	No Stops spinning ir	I less than 90°		A
Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs		No	I less than 90°		A	No	I less than 90°		A
Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19		No Stops spinning ir No			A A A A	No Stops spinning ir No			A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs		No Stops spinning ir			A A A	No Stops spinning ir No Changing course	eless than 45°		A
Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19		No Stops spinning ir No Changing course			A A A A	No Stops spinning ir No Changing course			A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release		No Stops spinning ir No Changing course Remains stable v	e less than 45° with straight span		A A A A A	No Stops spinning ir No Changing course Remains stable v	eless than 45° with straight span		A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery		No Stops spinning ir No Changing course Remains stable v Spontaneous in 1	e less than 45° with straight span		A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in 1	eless than 45° with straight span		A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I 0° - 30°	e less than 45° with straight span		A A A A A A A A	No Stops spinning ir No Changing course Remains stable of Spontaneous in 1 0° - 30°	eless than 45° with straight span		A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in 1	e less than 45° with straight span		A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in 1	eless than 45° with straight span		A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I 0° - 30° No	e less than 45° with straight span less than 3 sec		A A A A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in 1 0° - 30° No	less than 45° with straight span ess than 3 sec		A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I O° - 30° No Special device re	e less than 45° with straight span less than 3 sec		A A A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re	less than 45° with straight span ess than 3 sec		A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I 0° - 30° No	e less than 45° with straight span less than 3 sec		A A A A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in 1 0° - 30° No	less than 45° with straight span ess than 3 sec		A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I O° - 30° No Special device re	e less than 45° with straight span less than 3 sec equired		A A A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re	vith straight span ess than 3 sec equired		A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re Stable flight	e less than 45° with straight span less than 3 sec equired		A A A A A A A A A A	No Stops spinning ir No Changing course Remains stable i Spontaneous in I 0° - 30° No Special device re Stable flight	vith straight span ess than 3 sec equired		A A A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 No Changing course Remains stable Spontaneous in 1 0° - 30° No Special device re Stable flight Spontaneous in 1	e less than 45° with straight span less than 3 sec equired		A A A A A A A A A A A A	No Stops spinning ir No Changing course Remains stable Spontaneous in I 0° - 30° No Special device re Stable flight Spontaneous in I	vith straight span ess than 3 sec equired		A A A A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Stable flight Spontaneous in I 0° - 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 A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re Stable flight Spontaneous in I 0° bis 30°	eless than 45° with straight span ess than 3 sec equired ess than 3 sec		A A A A A A A A A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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		No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° Special device re Stable flight Spontaneous in I 0° - 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 A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re Stable flight Spontaneous in I 0° bis 30° Special device re	eless than 45° with straight span ess than 3 sec equired ess than 3 sec		A A A A A A A A A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Stable flight Spontaneous in I 0° - 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 A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re Stable flight Spontaneous in I 0° bis 30°	eless than 45° with straight span ess than 3 sec equired ess than 3 sec		A A A A A A A A A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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		No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° Special device re Stable flight Spontaneous in I 0° - 30° Special device re	e less than 45° with straight span less than 3 sec equired less than 3 sec equired		A A A A A A A A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re Stable flight Spontaneous in I 0° bis 30° Special device re	eless than 45° with straight span ess than 3 sec equired ess than 3 sec equired		A A A A A A A A A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 Behaviour during big ears		No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Stable flight Spontaneous in I 0° - 30° Special device re Stable flight	e less than 45° with straight span less than 3 sec equired less than 3 sec equired		A A A A A A A A A A A A A A A	No Stops spinning ir No Changing course Remains stable v Spontaneous in I 0° - 30° No Special device re Stable flight Special device re Stable flight	eless than 45° with straight span ess than 3 sec equired ess than 3 sec equired		A A A A A A A A A A A A A A A A A A A
Spin occurs 18. Recovery from a developed spin - 4.1.18 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 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	ator while	No Stops spinning in No Changing course Remains stable to Spontaneous in I 0° - 30° Special device re Stable flight Spontaneous in I 0° - 30° Special device re Stable flight Spontaneous in I	e less than 45° with straight span less than 3 sec equired less than 3 sec equired		A A A A A A A A A A A A A A A A A A	No Stops spinning ir No Changing course Remains stable to Spontaneous in 1 0° - 30° No Special device re Stable flight Spontaneous in 1 0° bis 30° Special device re Stable flight Spontaneous in 1	eless than 45° with straight span ess than 3 sec equired ess than 3 sec equired		A A A A A A A A A A A A A A A A A A A

22. Behaviour exiting a steep spiral - 4.1.22				
Tendency to return to straight flight	Spontaneous exit	А	Spontaneous exit	А
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	A	No	A
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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