Manufacturer		Type testing No.	EAPR-GS-7500/12	
		Date of testing	16.11.2011	
Model	lon 2 XS	Location	Bad Altausee	



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

	Minimum take off we	eight	Maximum take off weight		
Testpilot	Christian Amon		Hannes Tschofen		
Harness	EAPR Equipment		EAPR Test Equipment	No.	
Pilot's take off weight	70 kg		90 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	Α	No	А
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	Α	Yes	Α
Speed range using the controls larger than 10km/h		Yes	Α	Yes	А
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α
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°	Α	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	А
6. Pitch stability operating controls during accel	lerated fli	ght - 4.1.6			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping - 4.1.7					
Oscillations	Oscillations		Α	Reducing	Α
8. Stability in gentle spirals - 4.1.8					
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour in a steeply banked turn - 4.1.9					
Sink rate after two turns		Up to 12m/s	А	More than 14m/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	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	Ë	0° - 30° Keeping course	Α	0° - 30° Keeping course	А
Cascade occurs	-	No	Α	No	Α
Entry	p	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	accelerated	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	3006	0° - 30° Keeping course	Α	0° - 30° Keeping course	Α
Cascade occurs		No	Α	No	A

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11. Exiting deep stall (parachutal stall) - 4.1.11									
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°		А	0° - 30°			Α	
Change of course		Changing course	e less than 45°		Α	Changing course	e less than 45°		Α
Cascade occurs		No			А	No			Α
12. High angle of attack recovery - 4.1.12		<u> </u>				1			
Recovery		Spontaneous in	less 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								
Dive forward angle on exit		0° - 30°			Α	0° - 30°			Α
Collapse Cascade occurs (other than collapse)		No collapse		A	No collapse	No collapse No		A A	
Rocking backward		Less than 45°		A	Less than 45°			A	
Line tension		Most lines tight		A	Most lines tight		Α		
14. Asymmetric collapse (trim speed) - 4.1.14									
Change of course until re-inflation	Ф	< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	0° - 15°	Α
-	trim speed, max 50% collapse		l						
Re-inflation behavior	trim speed, x 50% colla	Spontaneous re-	inflation		Α	Spontaneous re-	inflation		Α
Total change of course	im s 50%	Less than 360°			A	Less than 360°			Α
Collapse on the opposite side occurs Twist occurs	t t	No No			A	No No			A
Cascade occurs	-	No			A	No			A
Change of course until re-inflation		< 90°	Dive or roll angle	15° - 45°	A	90° - 180°	Dive or roll angle	15° - 45°	В
	trim speed, max 75% collapse	<u> </u>		.5 10				., ,	
Re-inflation behavior	trim speed x 75% colla	Spontaneous re-	inflation		Α	Spontaneous re-	inflation		Α
Total change of course	n sp 5%	Less than 360°			А	Less than 360°			Α
Collapse on the opposite side occurs	trii ax 7	No			A	No			A
Twist occurs Cascade occurs	Ε	No No			A A	No No			A
		1	1	I		1	I	I	
Change of course until re-inflation	se	< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	0° - 15°	Α
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re-	-inflation		Α	Spontaneous re-	inflation		Α
Total change of course	Seler 0%	Less than 360°			А	Less than 360°			Α
Collapse on the opposite side occurs	ax 5	No			A	No			Α
Twist occurs Cascade occurs	٤	No No			A	No No			A A
		90° - 180°	Discount of the section of the secti	150 150	В	90° - 180°	Discount of the sector	150 150	В
Change of course until re-inflation	bse	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-	inflation		Α	Spontaneous re-	inflation		Α
Total change of course	cele 75%	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs Twist occurs	ac Jax j	No No			A	No No			A
Cascade occurs	_	No			A	No			A
15. Directional control with a maintained asymmetry	metric col	lapse - 4.1.15							
Able to keep course straight		Yes			Α	Yes			Α
180° turn away from the collapsed side possible in 10 sec Yes		Yes	Yes		Α	Yes		Α	
Amount of control range between turn and stall or	spin	More than 50% of the symmetric control travel			Α	More than 50% of the symmetric control travel			А
16. Trim speed spin tendency - 4.1.16									
Spin occurs		No			А	No			Α
17. Low speed spin tendency - 4.1.17									
Spin occurs		No			Α	No			Α
18. Recovery from a developed spin - 4.1.18									
Spin rotation angle after release	Stops spinning in less than 90°			Α	Stops spinning in less than 90°			Α	
Cascade occurs	· · ·		lo		A	No			Α
19. B-line-stall - 4.1.19									
19. B-line-stall - 4.1.19 Change of course before release		Changing course	e less than 45°		A	Changing course	e less than 45°		Α
			e less than 45° with straight span		A A		e less than 45° with straight span		A A
Change of course before release			with straight span				with straight span		
Change of course before release Behaviour before release		Remains stable	with straight span		Α	Remains stable	with straight span		Α
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		Remains stable Spontaneous in	with straight span		A A	Remains stable Spontaneous in	with straight span		A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit		Remains stable Spontaneous in 0° - 30°	with straight span		A A A	Remains stable Spontaneous in 0° - 30°	with straight span		A A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		Remains stable Spontaneous in 0° - 30°	with straight span		A A A	Remains stable Spontaneous in 0° - 30°	with straight span		A A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20		Remains stable Spontaneous in 0° - 30° No	with straight span		A A A	Remains stable Spontaneous in 0° - 30° No	with straight span		A A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure		Remains stable Spontaneous in 0° - 30° No Special device in	with straight span less than 3 sec		A A A A	Remains stable Spontaneous in 0° - 30° No Special device re	with straight span less than 3 sec		A A A A A
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		Remains stable Spontaneous in 0° - 30° No Special device of Stable flight	with straight span less than 3 sec		A A A A A	Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in	with straight span less than 3 sec		A A A A A
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		Remains stable Spontaneous in 0° - 30° No Special device of Stable flight Spontaneous in	with straight span less than 3 sec		A A A A	Remains stable Spontaneous in 0° - 30° No Special device re Stable flight	with straight span less than 3 sec		A A A A A
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		Remains stable Spontaneous in 0° - 30° No Special device in Stable flight Spontaneous in 0° - 30°	with straight span less than 3 sec equired less than 3 sec		A A A A A A	Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	with straight span less than 3 sec equired less than 3 sec		A A A A A A
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		Remains stable Spontaneous in 0° - 30° No Special device in Stable flight Spontaneous in 0° - 30° Special device in	with straight span less than 3 sec equired less than 3 sec		A A A A A A A	Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re	with straight span less than 3 sec equired less than 3 sec		A A A A A A A
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		Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight	with straight span less than 3 sec equired less than 3 sec		A A A A A A A	Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight	with straight span less than 3 sec equired less than 3 sec		A A A A A A A
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		Remains stable Spontaneous in 0° - 30° No Special device of Stable flight Spontaneous in 0° - 30° Special device of Stable flight Spontaneous in Special device of Stable flight Spontaneous in	with straight span less than 3 sec equired less than 3 sec		A A A A A A A	Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight Spontaneous in	with straight span less than 3 sec equired less than 3 sec		A A A A A A A
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		Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight	with straight span less than 3 sec equired less than 3 sec		A A A A A A A	Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight	with straight span less than 3 sec equired less than 3 sec		A A A A A A A

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22. Behaviour exiting a steep spiral - 4.1.22				
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	А
23. Alternative means of directional control - 4.1.23	•			
180° turn achievable in 20 sec	Yes	А	Yes	Α
Stall or spin occurs	No	Α	No	Α
24. Any other flight procedure and/or configuration d	escribed 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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