Manufacturer	\sim	Type testing No.	EAPR-GS-7617/12	
		Location	Schruns	XEAPR
Model	SuSi S	Bad Grönenbach:	17.08.12	LBA Musterprüfstelle Gleitschirm - Motorschirm - Fallschirn

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

	Minimum take off w	eight	Maximum take off weight		
Date of testing	16.07.12		24.06.12		
Testpilot	Hannes Tschofen		Anselm Rauh		
Harness	Academy light Equipment		EAPR Testequipment		
Pilot's take off weight	80 kg		110 kg		

Classification

Α



Test-criteria	41106		Evaluation	41085	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	А
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	A	Yes	A
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					
fax. weight in flight up to 80kg			-		-
lax. weight in flight 80 to 100kg		Increasing > 60cm	А		-
Max. weight in flight greater than 100kg			-	Increasing >65 cm	А
5. Pitch stability exiting accelerated flight - 4.1.	.5				
		Dive forward less than 30°	A	Dive forward less than 30°	А
Collapse occurs		No	А	No	А
6. Pitch stability operating controls during acce	elerated fl	ight - 4.1.6			
Collapse occurs		No	А	No	А
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	12m/s to 14m/s	A
10. Symmetric front collapse - 4.1.10					
Entry		Rocking back less than 45°	A	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	А	0° - 30° Keeping course	Α
Cascade occurs	t	No	А	No	A
Entry	g	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	А	0° - 30° Keeping course	A
Cascade occurs	10	No	A	No	A

Twist occurs Cascade occurs Change of course until re-inflation	trim speed, se max 50% collapse	Yes Spontaneous in less than 3 sec 0° - 30° Changing course less than 45° No Spontaneous in less than 3 sec No 0° - 30° No collapse No Less than 45° Most lines tight	0° - 15°	A A A A A A A A A A A	Yes Spontaneous in le 0° - 30° Changing course No Spontaneous in le No 0° - 30° No collapse No Less than 45° Most lines tight	less than 45°		A A A A A A A A A A A
Dive forward angle on exit Change of course Cascade occurs 12. High angle of attack recovery - 4.1.12 Recovery Cascade occurs 13. Recovery from a developed full stall - 4.1.13 Dive forward angle on exit Collapse Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs Total change of course Collapse on the opposite side occurs Twist occurs		o° - 30° Changing course less than 45° No Spontaneous in less than 3 sec No 0° - 30° No collapse No Less than 45° Most lines tight 	0° - 15°	A A A A A A A A A	0° - 30° Changing course No Spontaneous in le No 0° - 30° No collapse No Less than 45°	less than 45°		A A A A A A A A
Change of course Cascade occurs 12. High angle of attack recovery - 4.1.12 Recovery Cascade occurs 13. Recovery from a developed full stall - 4.1.13 Dive forward angle on exit Collapse Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs Total change of course Collapse on the opposite side occurs Twist occurs		Changing course less than 45° No Spontaneous in less than 3 sec No 0° - 30° No collapse No Less than 45° Most lines tight < 90° Dive or roll angle Spontaneous re-inflation Less than 360°	0° - 15°	A A A A A A A A	Changing course No Spontaneous in le No O° - 30° No collapse No Less than 45°			A A A A A A A
Cascade occurs 12. High angle of attack recovery - 4.1.12 Recovery Cascade occurs 13. Recovery from a developed full stall - 4.1.13 Dive forward angle on exit Collapse Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Change of course until re-inflation Re-inflation behavior Total change of course Change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs		No Spontaneous in less than 3 sec No O° - 30° No collapse No Less than 45° Most lines tight	0° - 15°	A A A A A A A A	No Spontaneous in le No 0° - 30° No collapse No Less than 45°			A A A A A A
Recovery Cascade occurs 13. Recovery from a developed full stall - 4.1.13 Dive forward angle on exit Collapse Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs		No O° - 30° No collapse No Less than 45° Most lines tight	0° - 15°	A A A A A A	No 0° - 30° No collapse No Less than 45°	ess than 3 sec		A A A A
Cascade occurs 13. Recovery from a developed full stall - 4.1.13 Dive forward angle on exit Collapse Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs		No O° - 30° No collapse No Less than 45° Most lines tight	0° - 15°	A A A A A A	No 0° - 30° No collapse No Less than 45°	ess than 3 sec		A A A A
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Dive forward angle on exit Collapse Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs Twist occurs		No collapse No Less than 45° Most lines tight < 90° Dive or roll angle Spontaneous re-inflation Less than 360°	0° - 15°	A A A A A	No collapse No Less than 45°			A A A
Collapse Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Total change of course Collapse on the opposite side occurs Twist occurs Total change of course Collapse on the opposite side occurs Twist occurs		No collapse No Less than 45° Most lines tight < 90° Dive or roll angle Spontaneous re-inflation Less than 360°	0° - 15°	A A A	No collapse No Less than 45°			A A
Cascade occurs (other than collapse) Rocking backward Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Change of course until re-inflation Re-inflation behavior Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Twist occurs		No Less than 45° Most lines tight < 90° Dive or roll angle Spontaneous re-inflation Less than 360°	0° - 15°	A A A	No Less than 45°			А
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Line tension 14. Asymmetric collapse (trim speed) - 4.1.14 Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Twist occurs		< 90° Dive or roll angle Spontaneous re-inflation Less than 360°	0° - 15°	A				A
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Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Collapse on the opposite side occurs Twist occurs Twist occurs		Spontaneous re-inflation Less than 360°	0° - 15°	А				
Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs		Less than 360°			< 90°	Dive or roll angle	0° - 15°	А
Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs				А	Spontaneous re-ir	nflation		А
Twist occurs Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs		No		A	Less than 360°			A
Cascade occurs Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs				Α	No			A
Change of course until re-inflation Re-inflation behavior Total change of course Collapse on the opposite side occurs Twist occurs	se	No		A	No No			A
Re-inflation behavior - Total change of course - Collapse on the opposite side occurs - Twist occurs -	se	< 90° Dive or roll angle	15° - 45°		< 90°	Dive or roll angle	15° - 45°	
Twist occurs	d, lap		15" - 45"	A		-	15" - 45"	A
Twist occurs	trim speed, max 75% collapse	Spontaneous re-inflation		A	Spontaneous re-ir	mation		A
Twist occurs	rim (Less than 360° No		A	Less than 360° No			A
Cascade occurs	tı max	No		A	No			A
		No		A	No			A
Change of course until re-inflation	e	< 90° Dive or roll angle	0° - 15°	А	< 90°	Dive or roll angle	15° - 45°	A
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re-inflation		А	Spontaneous re-ir	nflation		A
Total change of course	seler 0%	Less than 360°		A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	ax	No		A	No			A
Cascade occurs	E	No		A	No No			A
Change of course until re-inflation	se	< 90° 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		А	Spontaneous re-ir	nflation		A
Total change of course	seler 5%	Less than 360°		A	Less than 360°			A
	aco ax 7	No No		A	No No			A
Twist occurs Cascade occurs	F	No		A	No			A
15. Directional control with a maintained asymmet	tric col	lapse - 4.1.15						
Able to keep course straight		Yes		A	Yes			A
80° 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 co	ontrol travel	А		
16. Trim speed spin tendency - 4.1.16 Spin occurs		No		^	No			
Spin occurs 17. Low speed spin tendency - 4.1.17				A				A
Spin occurs		No		A	No			A
18. Recovery from a developed spin - 4.1.18								
Spin rotation angle after release		Stops spinning in less than 90°		А	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 less than 45°		A	Changing course	less than 45°		A
Behaviour before release		Remains stable with straight span		А	Remains stable with straight span			А
Recovery		Spontaneous in less than 3 sec		А	Spontaneous in less than 3 sec			А
Dive forward angle on exit Cascade occurs		0° - 30° No		A A	0° - 30° No		A A	
20. Big ears - 4.1.20		1			1			
Entry procedure		Special device required		А	Special device rec	juired		А
Behaviour during big ears Stable fligh		Stable flight	able flight A		Stable flight		A	
Recovery Spontaneous in less than 3 sec		А	Spontaneous in le	ess than 3 sec		А		
Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21		0° - 30°		А	0° bis 30°			A
Entry procedure		Special device required		A	Special device rec	luired		A
Behaviour during big ears		Stable flight		A	Stable flight			A
Recovery		Spontaneous in less than 3 sec		A	Spontaneous in le	ess than 3 sec		А
Dive forward angle on exit		0° - 30°		A	0° bis 30°			A
Dive forward angle on exit	Behaviour immediately after releasing the accelarator while		Stable flight					
Dive forward angle on exit		Stable flight		А	Stable flight			А

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	А
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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