FTR - Flight Test Report Dieser Prüfbericht darf ohne schriftliche Zustlimmung der EAPR nicht, auch nic

Manufacturer	AIRDESIGN	Type testing No.	EAPR-GS-0798/18
	AIRDESIGN GmbH Rhombergstraße 9 A-6967 Absam	serial number	X505161PP172614
Model	Susi 3.16	Landin	Brauneck
Comment	glider was tested with a crossline	Location	Achensee



Rev. 2.3 - 26.11.2014 EAPR GmbH - Marktstr. 11 D-87730 Bad Grönenbach - Germany

Date of testing	05.11.2017	Minimum take off 60 kg	weight	Maximum take off weight 75 kg		
Testpilot		Sepp Bauer		Mike Küng		
Harness		EAPR-Testequipment		EAPR-Testequipment		
Pilot's take off weig	ht	60 k <u>ı</u>		75 kg		

Classification

В



Test-criteria	st-criteria		Evaluation	Maximum take off weight	Evaluation		
1. Inflation / take-off - 4.4.1							
Rising behavior		no pilot correction required	Α	no pilot correction required	Α		
Special take off technique required		No	Α	No	Α		
2. Landing - 4.4.2							
Special landing technique required		No	Α	No	Α		
3. Speeds in straight flight - 4.4.3							
Trim speed more than 30km/h		Yes	I A	Yes	A		
Speed range using the controls larger than 10km/h		Yes	A	Yes	A		
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	В		
4. Control movement - 4.4.4		20 18/1/1 (0 00 18/1/1		20 Millio do Millio	, ,		
Max. weight in flight up to 80kg		Increasing > 55cm	А	Approx. > 55cm	В		
Max. weight in flight 80 to 100kg			-	Conclude	-		
Max. weight in flight greater than 100kg			-		-		
5. Pitch stability exiting accelerated flight - 4.4.5	5						
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	Α		
Collapse occurs		No	Ä	No	Ä		
6. Pitch stability operating controls during accel	lerated t	flight - 4.4.6			,		
Collapse occurs		I No	l A	l No	Α		
7. Roll stability and damping - 4.4.7		140		110			
Oscillations		I. Dadicalas	Α	Dadusias	l A		
		Reducing	A	Reducing	A		
8. Stability in gentle spirals - 4.4.8							
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α		
9. Behaviour exiting a fully developed spiral div	e - 4.4.						
Initial response of glider (first 180°)		Immediate reduction of rate in turn	Α	No immediate reaction	В		
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	A		
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α		
10. Symmetric front collapse - 4.4.10							
Folding lines used		No		No			
Entry	30%	Rocking back less than 45°	Α	Rocking back less than 45°	Α		
Recovery	speed ~ 3	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	А		
Dive forward angle on exit	trim sp	0° - 30° Keeping course	Α	0° - 30° Entering a turn of less than 90°	Α		
Cascade occurs		No .	A	No .	A		
Entry	×20%	Rocking back less than 45°	Α	Rocking back less than 45°	A		
Recovery	< paeds	Spontaneous in less than 3 sec	Α	Spontaneous in 3 to 5 sec	В		
Dive forward angle on exit	frim s	0° - 30° Keeping course	A	30° - 60° Entering a turn of less than 90°			
Cascade occurs		No Rocking back less than 45°	A	No Rocking back less than 45°	A		
Entry Recovery	%05 < bi	Spontaneous in less than 3 sec	A	Spontaneous in 3 to 5 sec	A B		
•	erated :	30° - 60° Keeping course	В	30° - 60° Entering a turn of less than 90°	В		
Dive forward angle on exit Cascade occurs	acoe	No Reeping course	A	No Entering a turn or less than 90	A		
11. Exiting deep stall (parachutal stall) - 4.4.11							
Deep stall achieved		Yes		Yes			
Recovery		Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	А		
Dive forward angle on exit		30° - 60°	В	30° - 60°	В		
Change of course		Changing course less than 45°	A	Changing course less than 45°	A		
Cascade occurs		No	Α	No	Α		

Musterprüfnummer: Flight Test Report -EAPR-GS-0798/18 Seite 1 von 2

Receivery September Receive	12. High angle of attack recovery - 4.4.12								
Second process No					Α	Spontaneous in less than 3 sec			Α
15. No. 15.	·		·			·			
Column		NO			110				
Cascales accounts prior them coloques No. Less than 55° A Less than 55° A Cascales accounts Less than 55° A									
Description									
Text Section Text		Rocking backward							
Posture per course 100			Wost lines tight		A	Iviost lines tight			А
Sportaneous re inflation			No			No			
Special content Special co	Change of course until re-inflation	98	< 90° Dive or roll	angle 15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
Special content Special co	Re-inflation behavior	ed, ollaps	Spontaneous re-inflation	l	А	Spontaneous re	e-inflation		А
Special content Special co		spe % cc	•			· ·			
Secretarian setting entitation Secretarian Secretari	Collapse on the opposite side occurs	trim ax 50	No		Α	No			Α
Re-inflation behavior That charge of course until re-inflation Part of course on the opposite side occurs That charge of course cutifit e-inflation Charge of course until re-inflation Re-inflation behavior Re-inflation beha		Ë							
Positivation behavior Total charge of course of course posses also occurs Cascadian occurs. Cascadian occur		0		angle 15° - 45°			Dive or roll angle	15° - 45°	
Cascade occurs No	-	d, lapse							
Cascade occurs No		loo %	•						
Cascade occurs No		trim \$ × 75%							
Charge of course until re-infation Re-infation behavior Total charge of course Charge of course until re-infation A Spontaneous re-infation A Spontaneous re-infation A Spontaneous re-infation A Spontaneous re-infation A Lies than 360° A No Charge of course until re-infation A Spontaneous re-infation A No Cascade occurs Charge of course until re-infation A No Re-infation behavior Total charge of course Coascade occurs Total charge of course Total charge of course Coascade occurs Total charge of course Total charge of course Coascade occurs Total charge of course Total charge of course Coascade occurs Total charge of course Total charge of course occurs of total charge Total charge of course occurs of total charge Total charge of course occurs occurs occurs Total charge of course occurs occurs Total charge of course occurs occurs Total charge of course occurs occurs occurs Total charge occurs	Twist occurs	max	No		Α	No			Α
Re-inflation behavior Total charge of course course These course These course The course course course The course course The course course The course course course course The course cour	Cascade occurs		No		А	No			А
No	Change of course until re-inflation	Se	< 90° Dive or roll	angle 15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
No	Re-inflation behavior	nted, ollap	Spontaneous re-inflation		Α	Spontaneous re	e-inflation		Α
No		elera 3% c	1.5						
No	Collapse on the opposite side occurs	acc ax 5(No		Α	No			
Change of course until re-initation behavior Re-initiation R		E							
Re-inflation behavior Total change of course Collegee on the popular side occurs Twist occurs Tw		m	90° - 180° Dive or roll	angle 15° - 45°		90° - 180°	Dive or roll angle	15° - 45°	
Cascade occurs No A No		ed, laps	0			0	1.0.0		
Cascade occurs No A No		lerate % col	•				e-inflation		
Cascade occurs No A No		ассе x 75°							
1.5. Directional control with a maintained asymmetric collapse - 4.4.15 Able to keep course straight	Twist occurs	ma			Α				
Abb to keep course straight 180° turn away from the collapsed side possible in 10 sec. Yes A Nor than 50% of the symmetric control travel A More than 50% of the symmetric control travel A More than 50% of the symmetric control travel A Nor than 50% of the symmetric control travel A Nor than 50% of the symmetric control travel A Nor than 50% of the symmetric control travel A Nor than 50% of the symmetric control travel A Nor than 50% of the symmetric control travel A No A N		metric co			А	No			А
Amount of control range between turn and stal or spin More than 50% of the symmetric control travel A More than 50% of the symmetric control travel A No	-		-			Yes			Α
16. Trim speed spin tendency - 4.4.16 Spin occurs No A No	180° turn away from the collapsed side possible ir	10 sec	Yes			Yes			Α
16. Trim speed spin tendency - 4.4.16 Spin occurs No A No A No A 18. Recovery from a developed spin - 4.4.18 Spin occurs No A No A No A 18. Recovery from a developed spin - 4.4.18 Spin occurs No A No A No A No A No A 19. Brine-stall - 4.4.19 Cascade occurs No A No A No A No A No A 19. Brine-stall - 4.4.19 Cascade occurs No A Changing course less than 45° A Changing course less than 45° A Remains stable with straight span A Remains stable with straight	Amount of control range between turn and stall or	snin	More than 50% of the symmetric control travel			More than 50%	Δ		
Spin occurs No A No	-	Ории	more than 50 % or the cyrin		, , ,	more triained /s	or the dynamoune	5011.011.0101	, , ,
17. Low speed spin tendency - 4.4.17 Spin occurs No A No No			No		А	l No			l A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Stops spinning in less than 90° A Stops spinning in less than 90° A No A Classade occurs A Changing course less than 45° A Changing course less than 45° A Changing course less than 45° A Remains stable with straight span A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A No A No A No A No A No A No A Stable flight A No A No			740						
Spin rotation angle after release Stops spinning in less than 90° A Stops spinning in less than 90° A No Behaviour before release Changing course less than 45° A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A No A Standard technique			No		Α	No			А
Cascade occurs No A No A No A 19. B-line-stall - 4.4.19 Change of course before release Changing course less than 45° A Remains stable with straight span A Remains stable with straight span A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A No A N	18. Recovery from a developed spin - 4.4.18		I						
19. B-line-stall - 4.4.19 Changing course less than 45° A Remains stable with straight span A No A N			Stops spinning in less than 90°						Α
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 A Remains stable with straight span A Recovery Spontaneous in less than 3 sec A Stable flight A Stable fli			No		Α	No			Α
Behaviour before release Remains stable with straight span A Remains stable with straight span A Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A 30° - 60° A 30° - 60° A A 30° - 60° A A 30° - 60° A A No A			Changing course less than	45°	А	Changing cours	e less than 45°		l A
Recovery Spontaneous in less than 3 sec A No A N								ı	
Dive forward angle on exit O*-30° A 30°-60° A 20. Big ears - 4.4.20 Entry procedure Standard technique A Standard technique A Stable flight A Stable flight A Stable flight A Stable flight A O* bis 30° A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A O* bis 30° A Standard technique Entry procedure Standard technique Standard technique A Stable flight A Stable fl						<u> </u>			
Cascade occurs No 20. Big ears - 4.4.20 Entry procedure Standard technique A Standard technique A Standard technique A Stable flight A Stable flight A Stable flight A Stable flight A O° bis 30° A O° bis 30° A Standard technique Entry procedure Standard technique Standard technique Standard technique A Standard technique Entry procedure Standard technique A Stable flight A Stable			Spontaneous in less than 3 sec						
Standard technique A Stable flight A Standard technique A Standard technique A Standard technique A Stable flight A S									
Behaviour during big ears Stable flight A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A O° bis 30° A O° bis 30° A 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Standard technique A Standard technique A Standard technique A Stable flight A Stable fli									
Behaviour during big ears Stable flight A Stable flight A Stable flight A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A O° bis 30° A O° bis 30° A 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Standard technique A Standard technique A Standard technique A Standard technique A Stable flight A Stabl	Entry procedure		Standard technique	Α	Standard technique			Α	
Recovery Spontaneous in less than 3 sec A Spontaneous in less than 3 sec A 0° bis 30° A 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Standard technique A Standard technique A Stable flight A Spontaneous in less than 3 sec A Spontaneous in 3 to 5 sec A Dive forward angle on exit Sec A Spontaneous in less than 3 sec A Spontaneous in 3 to 5 sec A Sec A Spontaneous in 3 to 5 sec A Stable flight A S			·		A	· ·			Α
Dive forward angle on exit 0° - 30° A 0° bis 30° A 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Standard technique A Standard technique A Stable flight A Spontaneous in less than 3 sec A Spontaneous in 3 to 5 sec A Dive forward angle on exit 0° - 30° A 0° bis 30° A Sebhaviour immediately after releasing the accelerator while maintaining big ears Stable flight A S									А
Entry procedure Standard technique A Standard technique A Standard technique A Standard technique A Stable flight A Stable fli	•				А	· ·			А
Behaviour during big ears Stable flight A Stable flight A Stable flight A Stable flight A Spontaneous in 3 to 5 sec A Dive forward angle on exit Dive forward angle on exit Behaviour immediately after releasing the accelarator while maintaining big ears Casalter means of directional control - 4.4.22 180° turn achievable in 20 sec Yes A Yes A Yes A Stable flight A	21. Big Ears in accelerated flight - 4.4.21								
Recovery Spontaneous in less than 3 sec A Spontaneous in 3 to 5 sec A Dive forward angle on exit 0° - 30° A 0° bis 30° A Behaviour immediately after releasing the accelarator while maintaining big ears 23. Alternative means of directional control - 4.4.22 180° turn achievable in 20 sec Yes A Yes A Stall or spin occurs No A No A 23. Any other flight procedure and/or configuration described in the user's manual - 4.4.23 Procedure works as descibed NA NA Procedure unitable for novice pilots NA NA Cascade occurs NA NA NA	Entry procedure		Standard technique		Α	Standard technique			Α
Dive forward angle on exit 0° - 30° A 0° bis 30° A Behaviour immediately after releasing the accelarator while maintaining big ears 23. Alternative means of directional control - 4.4.22 180° turn achievable in 20 sec Yes A Yes A No A Stable flight A No A No A No A No A No A No A Stall or spin occurs No A No A No A No A No A NA Procedure works as descibed NA NA Cascade occurs NA NA NA NA NA NA NA NA NA N	Behaviour during big ears		Stable flight		Α	Stable flight			Α
Behaviour immediately after releasing the accelarator while maintaining big ears 23. Alternative means of directional control -4.4.22 180° turn achievable in 20 sec Yes A Yes A Yes A A Stable flight A Stable flight A Stable flight A Stable flight A No A No A No A Stable flight A No A No A No A No A NA NA	Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in 3 to 5 sec			Α
maintaining big ears 23. Alternative means of directional control - 4.4.22 180° turn achievable in 20 sec Yes A Yes A Yes A Yes A Stall or spin occurs No A No A 23. Any other flight procedure and/or configuration described in the user's manual - 4.4.23 Procedure works as descibed NA NA Cascade occurs NA NA NA NA NA NA NA NA NA N			0° - 30°		Α	0° bis 30°			Α
23. Alternative means of directional control - 4.4.22 180° turn achievable in 20 sec Yes A Yes A Stall or spin occurs No A No A 23. Any other flight procedure and/or configuration described in the user's manual - 4.4.23 Procedure works as described NA NA Procedure suitable for novice pilots NA Cascade occurs NA NA			Stable flight		Α	Stable flight			Α
Stall or spin occurs No A No A 23. Any other flight procedure and/or configuration described in the user's manual - 4.4.23 Procedure works as descibed NA NA NA Procedure suitable for novice pilots NA NA Cascade occurs NA NA		4.4.22							
Stall or spin occurs No A No A 23. Any other flight procedure and/or configuration described in the user's manual - 4.4.23 Procedure works as descibed NA NA NA Procedure suitable for novice pilots NA NA Cascade occurs NA NA	180° turn achievable in 20 sec	Yes		Α	Yes			Α	
23. Any other flight procedure and/or configuration described in the user's manual - 4.4.23 Procedure works as descibed NA NA NA Cascade occurs NA NA NA NA NA NA NA NA NA N									
Procedure suitable for novice pilots NA NA NA Cascade occurs NA NA NA	23. Any other flight procedure and/or configura	ation des	cribed in the user's manual	- 4.4.23					•
Cascade occurs NA NA									
	Cascade occurs								
24. Remarks of testpilot:	24. Remarks of testpilot:		T						

Flight Test Report - Musterprüfnummer: EAPR-GS-0798/18 Seite 2 von 2