FTR - Flight Test Report Dieser Prütbericht darf ohne schriftliche Zustimmung der EAPR nicht, auch nic

Manufacturer	AIRDESIGN	Type testing No.	EAPR-GS-0846/18	
	AIRDESIGN GmbH Rhombergstraße 9 A-6967 Absam	serial number	Proto	
Model	SuSi 3 21	Location	Achensee	
		Location	Achensee	



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

Date of testing	08.05.2018	Minimum take o 60 kg	off weight	Maximum take off weight 83 kg		
Testpilot		Sepp Bauer		Mike Küng		
Harness		EAPR- Lightequipmen	t	EAPR-Testequipment		
Pilot's take off weigl	nt	60	kg	83 kg		

Classification В



Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation		
1. Inflation / take-off - 4.4.1							
Rising behavior		no pilot correction required	А	no pilot correction required	Α		
Special take off technique required		No	Α	No	Α		
2. Landing - 4.4.2			•		•		
Special landing technique required		l No	Α	No	Α		
3. Speeds in straight flight - 4.4.3			, ,,		, ,,		
Trim speed more than 30km/h		Yes	A	Yes	l A		
Speed range using the controls larger than 10km/h		Yes A Yes			A		
Minimum speed		Less than 25 km/h	A	Less than 25 km/h	Α		
4. Control movement - 4.4.4		2000 (1011 20 1011)		Edda than Ed hill	, ,,		
Max. weight in flight up to 80kg		I	-		-		
Max. weight in flight 80 to 100kg		Increasing > 60cm	A	Increasing > 60cm	A		
Max. weight in flight greater than 100kg			-		-		
	_						
5. Pitch stability exiting accelerated flight - 4.4.	5	I Di di di di di		L Bit of the state			
Dive forward angle on exit Collapse occurs		Dive forward less than 30°	A	Dive forward less than 30°	A		
		1 -	A	No	A		
6. Pitch stability operating controls during acce	ierated	_		I N			
Collapse occurs		No	Α	No	Α		
7. Roll stability and damping - 4.4.7							
Oscillations		Reducing	Α	Reducing	Α		
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.	9					
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	Α	Spontaneous exit	Α		
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	Α	720° to 1080°, spontaneous recovery	В		
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		Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α		
Dive forward angle on exit	rim speed	0° - 30° Keeping course	Α	0° - 30° Entering a turn of less than 90°			
Cascade occurs		No .	A	No .	A		
Entry Recovery	7 > 50%	Rocking back less than 45° Spontaneous in less than 3 sec	A	Rocking back less than 45° Spontaneous in less than 3 sec	A		
Dive forward angle on exit	paads	0° - 30° Keeping course	Α	30° - 60° Entering a turn of less than 90'	В		
Cascade occurs	Ē	No Reeping course	Ä	No Entering a turn or less than 90	A		
Entry	20%	Rocking back less than 45°	A	Rocking back less than 45°	Ä		
Recovery	erated > 50	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	Α		
Dive forward angle on exit	elera	0° - 30° Keeping course	А	30° - 60° Entering a turn of less than 90'	° В		
Cascade occurs		No	A	No A			
11. Exiting deep stall (parachutal stall) - 4.4.11							
Deep stall achieved		Yes		Yes			
Recovery		Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	Α		
Dive forward angle on exit		0° - 30°	Α	30° - 60°	В		
Change of course		Changing course less than 45°	Α	Changing course less than 45°	Α		
Change of course							

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12. High angle of attack recovery - 4.4.12									
Recovery	Spontaneous in less than 3 sec			Α	Spontaneous in less than 3 sec			Α	
Cascade occurs		No		A	No			A	
13. Recovery from a developed full stall - 4.4	110			No					
Dive forward angle on exit		0° - 30°		A	30° - 60°			В	
Collapse Cascade occurs (other than collapse)		No collapse No			A A	No collapse No			A
Rocking backward		Less than 45°		Α	Less than 45°			A	
Line tension 14. Asymmetric collapse (trim speed) - 4.4.14	4	Most lines tight			Α	Most lines tight			Α
Folding lines used		No				No			
Change of course until re-inflation	Se	< 90°	Dive or roll angle	0° - 15°	Α	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re-infl	lation		Α	Spontaneous re	-inflation		Α
Total change of course	trim speed,	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs	ax 5	No No		A	No		A		
Twist occurs Cascade occurs	= E	No No			A A	No No			A
Change of course until re-inflation	Ф	< 90°	Dive or roll angle	15° - 45°	Α	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	trim speed, max 75% collapse	Coontonoous ra infl	lation		А	Spontaneous re	inflation		Α
Total change of course	spee	Spontaneous re-inflation Less than 360°			A	Less than 360°	·IIIIation		A
Collapse on the opposite side occurs	trim IX 75	No No	No		A	No			A
Twist occurs	_	No		A A	No No			A A	
Cascade occurs		No				No			
Change of course until re-inflation	- Se	< 90°	Dive or roll angle	15° - 45°	Α	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re-infl	lation		Α	Spontaneous re	-inflation		Α
Total change of course	accelerated x 50% colla	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs Twist occurs	acı	No No			A A	No No			A A
Cascade occurs		No			Ä	No			Ä
Change of course until re-inflation	9	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-infl	lation		Α	Spontaneous re	-inflation		Α
Total change of course	accelerated ix 75% colla	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	acc ax 75	No			Α	No			Α
Twist occurs Cascade occurs	- E	No No			A A	No No			A
15. Directional control with a maintained asyr	nmetric co								
Able to keep course straight		Yes		Α	Yes			Α	
180° turn away from the collapsed side possible	$180\ensuremath{^\circ}$ turn away from the collapsed side possible in 10 sec		Yes			Yes			Α
Amount of control range between turn and stall or spin		More than 50% of the symmetric control travel		Α	A More than 50% of the symmetric control travel			Α	
16. Trim speed spin tendency - 4.4.16									
Spin occurs		No			Α	A No			
17. Low speed spin tendency - 4.4.17									
Spin occurs 18. Recovery from a developed spin - 4.4.18		No			Α	No			Α
		Change animping in least them 000					Stops spinning in less than 90°		
Cascade occurs	Spin rotation angle after release		cc than 90°		۸	Stone eninning i	a loce than 90°		۸
		Stops spinning in le	ss than 90°		A		n less than 90°		Α
19. B-line-stall - 4.4.19		Stops spinning in le	ess than 90°		A A	Stops spinning i	n less than 90°		A A
Change of course before release									
		No	ess than 45°		A	No Changing course		1	A
Change of course before release		No Changing course les	ess than 45° h straight span		A	No Changing course	e less than 45° with straight spar	1	A
Change of course before release Behaviour before release		No Changing course le: Remains stable with	ess than 45° h straight span		A A A	No Changing course Remains stable	e less than 45° with straight spar	1	A A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		Changing course let Remains stable with Spontaneous in less	ess than 45° h straight span		A A A	Changing course Remains stable Spontaneous in	e less than 45° with straight spar	1	A A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20		No Changing course leteration of the course le	ss than 45° h straight span s than 3 sec		A A A A A	Changing cours: Remains stable Spontaneous in 30° - 60° No	e less than 45° with straight spar less than 3 sec		A A A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure		No Changing course leteration of the stable with Spontaneous in less 0° - 30° No Standard technique	ss than 45° h straight span s than 3 sec		A A A A A	No Changing course Remains stable Spontaneous in 30° - 60° No Standard technic	e less than 45° with straight spar less than 3 sec	1	A A A A A
Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears		No Changing course leteration in less to the course less than	ess than 45° h straight span s than 3 sec		A A A A A	No Changing course Remains stable Spontaneous in 30° - 60° No Standard technic	e less than 45° with straight spar 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 - 4.4.20 Entry procedure Behaviour during big ears Recovery		No Changing course leteration in less to the stable with Spontaneous in less to "- 30" No Standard technique Stable flight Spontaneous in less	ess than 45° h straight span s than 3 sec		A A A A A	No Changing course Remains stable Spontaneous in 30° - 60° No Standard technic Stable flight Spontaneous in	e less than 45° with straight spar 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 - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit		No Changing course leteration in less to the course less than	ess than 45° h straight span s than 3 sec		A A A A A	No Changing course Remains stable Spontaneous in 30° - 60° No Standard technic	e less than 45° with straight spar 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 - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21		No Changing course le: Remains stable with Spontaneous in les: 0°-30° Standard technique Stable flight Spontaneous in les: 0°-30°	ss than 45° h straight span s than 3 sec		A A A A A A	No Changing course Remains stable Spontaneous in 30° - 60° No Standard technic Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight spar less than 3 sec que		A A A A A A 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 - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure		No Changing course le: Remains stable with Spontaneous in les: 0°-30° No Standard technique Stable flight Spontaneous in les: 0°-30° Standard technique	ss than 45° h straight span s than 3 sec		A A A A A A A	No Changing course Remains stable Spontaneous in 30° - 60° No Standard technic Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight spar less than 3 sec que		A A A A A A A A A A A A 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 - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears		No Changing course le: Remains stable with Spontaneous in les: 0°-30° No Standard technique Stable flight Spontaneous in les: 0°-30° Standard technique Stable flight	ss than 45° h straight span s than 3 sec		A A A A A A A A A A A A A A A A A A A	No Changing course Remains stable Spontaneous in 30° - 60° No Standard technic Stable flight Spontaneous in 0° bis 30° Standard technic Stable flight	e less than 45° with straight spar less than 3 sec que		A A A A A A A A A A A A A A A A A A A
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