## FTR - Flight Test Report

Manufacturer	Swing	Type testing No.	EAPR-GS-0640/17	JE LOS
	Swing Flugsportgeräte GmbH An der Leiten 4 D-82290 Landsberied	serial number		Messen   Prüfen   Bewerten Rev. 2.3 - 26.11.2014
Model	Arcus RS-S	Leastion	Gardasee	EAPR GmbH - Marktstr. 11 D-87730 Bad Grönenbach - Germany
Comment		Location	Gardasee	

ise, vervielfältigt werden

Date of testing	21.04.2017	Minimum take 70 kg		eight	Maximum take off weight 95 kg		
Testpilot		Mike Küng			Pascal Purin		
Harness		EAPR-light			EAPR		
Pilot's take off weig	ht	70	kg	1 Alexandre	95	kg	*

Classification	В
Classification	D



Test-criteria		Minimum take off weight Evaluation		Maximum take off weight	Evaluatio
1. Inflation / take-off - 4.4.1					
Rising behavior		no pilot correction required	А	no pilot correction required	А
Special take off technique required		No		No	А
2. Landing - 4.4.2		10	A	10	
Special landing technique required		No	A	No	A
3. Speeds in straight flight - 4.4.3		10	A	No	~
		l Vaa		. Vee	
Trim speed more than 30km/h		Yes	A	Yes	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	А
4. Control movement - 4.4.4					
Max. weight in flight up to 80kg			-		-
Max. weight in flight 80 to 100kg		Increasing > 60cm	А	Increasing > 60cm	A
Max. weight in flight greater than 100kg			-		-
5. Pitch stability exiting accelerated flight - 4.	4.5			I	
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	A
Collapse occurs		No	A	No	A
6. Pitch stability operating controls during ac	celerated	flight - 4.4.6			
Collapse occurs		No	A	No	A
7. Roll stability and damping - 4.4.7		•		•	
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spirals - 4.4.8					
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	A
9. Behaviour exiting a fully developed spiral of	livo - 1.4		<u> </u>		
Initial response of glider (first 180°)	live - 4.4.	No immediate reaction	В	No immediate reaction	В
Tendency to return to straight flight		Spontaneous exit	A	_	
Turn angle to recover normal flight		720° to 1080°, spontaneous recovery	B	720° to 1080°, spontaneous recovery	AB
10. Symmetric front collapse - 4.4.10					U
Folding lines used		No		No	
Entry		Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	d ~ 30%	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A
Dive forward angle on exit	speed	0° - 30° Keeping course	А	0° - 30° Keeping course	A
Cascade occurs	ţį	No	A	No	A
Entry	%	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	speed > 50%	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	trim spe	0° - 30° Keeping course	А	0° - 30° Keeping course	А
Cascade occurs		No	A	No	A
Entry	50%	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	accelerated > 50%	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A
e forward angle on exit				5	A
Cascade occurs		No	A	No	A
11. Exiting deep stall (parachutal stall) - 4.4.1	1				
Deep stall achieved		Yes		Yes	
Recovery		Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit		0° - 30°	A	0° - 30°	A
Change of course		Changing course less than 45°			A
Cascade occurs		No	A	No	A

12. High angle of attack recovery - 4.4.12									
Recovery	Spontaneous in less than 3 sec.			А	Spontaneous in less than 3 sec			А	
Cascade occurs		Spontaneous in less than 3 sec			A	No			A
13. Recovery from a developed full stall - 4.4.1	13	NO			A	NO			A
Dive forward angle on exit		0° - 30°			A	0° - 30°			A
Collapse		No collapse			A	No collapse			A
Cascade occurs (other than collapse) Rocking backward		No Less than 45°			A	No Less than 45°			A
Line tension		Most lines tight			A	Most lines tight			A
14. Asymmetric collapse (trim speed) - 4.4.14					-				
Folding lines used	1	No	1			No	1		
Change of course until re-inflation	se	< 90°	Dive or roll angle	15° - 45°	A	< 90°	Dive or roll angle	0° - 15°	A
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re	-inflation		А	Spontaneous re	-inflation		А
Total change of course	trim speed, < 50% colla	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	lax 5	No No			A	No No			A
Cascade occurs		No			A	No			A
Change of course until re-inflation	0	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	15° - 45°	В
	trim speed, max 75% collapse								
Re-inflation behavior	speed, % colla	Spontaneous re-inflation		A	Spontaneous re-inflation Less than 360° No No			A	
Total change of course Collapse on the opposite side occurs	trim s x 75%	Less than 360° No		A				A	
Twist occurs	ma	No						A	A
Cascade occurs		No			А	No			А
Change of course until re-inflation	m	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	15° - 45°	А
	accelerated, max 50% collapse	-	inflotic -	1	^	Coortess	inflatic -		^
Re-inflation behavior	lerate % col	Spontaneous re	-inflation		A	Spontaneous re	-milation		A
Total change of course Collapse on the opposite side occurs	accelerated x 50% colla	Less than 360° No			A	Less than 360° No			A
Twist occurs	ma	No			А	No			А
Cascade occurs		No	1		A	No	1		A
Change of course until re-inflation	se	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		А	Spontaneous re	-inflation		А
Total change of course	elera 5% c	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	acc ax 7:	No			Α	No No No			A
Twist occurs Cascade occurs	E	No No			A				A
15. Directional control with a maintained asymptotic	metric co								
Able to keep course straight		Yes			A	Yes			A
180° turn away from the collapsed side possible in	10 sec	Yes			А	Yes			A
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 control travel			А
-									
16. Trim speed spin tendency - 4.4.16 Spin occurs		No			А	No			А
17. Low speed spin tendency - 4.4.17									
Spin occurs		No			А	No			A
18. Recovery from a developed spin - 4.4.18									
Spin rotation angle after release		Stops spinning i	in less than 90°			Stops spinning i	n less than 90°		
				A				A	
Cascade occurs		No			A A	No			A
19. B-line-stall - 4.4.19					A	No			A
19. B-line-stall - 4.4.19 Change of course before release		Changing course	e less than 45°		A	No Changing course	e less than 45°		A
19. B-line-stall - 4.4.19		Changing course			A	No Changing course			A
19. B-line-stall - 4.4.19 Change of course before release		Changing course	e less than 45° with straight span		A	No Changing course	e less than 45° with straight span		A
19. B-line-stall - 4.4.19           Change of course before release           Behaviour before release		Changing course Remains stable	e less than 45° with straight span	· · · · · · · · · · · · · · · · · · ·	A A A	No Changing course Remains stable	e less than 45° with straight span		A A A
19. B-line-stall - 4.4.19         Change of course before release         Behaviour before release         Recovery         Dive forward angle on exit         Cascade occurs		Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A	No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A
19. B-line-stall - 4.4.19         Change of course before release         Behaviour before release         Recovery         Dive forward angle on exit         Cascade occurs         20. Big ears - 4.4.20		Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span		A A A A A	No Changing cours: Remains stable Spontaneous in 0° - 30° No	e less than 45° with straight span less than 3 sec		A A A A A
19. B-line-stall - 4.4.19         Change of course before release         Behaviour before release         Recovery         Dive forward angle on exit         Cascade occurs		Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span less than 3 sec		A A A A A	No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span less than 3 sec		A A A A A
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19. B-line-stall - 4.4.19         Change of course before release         Behaviour before release         Recovery         Dive forward angle on exit         Cascade occurs         20. Big ears - 4.4.20         Entry procedure		Changing course Remains stable Spontaneous in 0° - 30° No Standard techni	e less than 45° with straight span less than 3 sec que		A A A A A A	No Changing cours: Remains stable Spontaneous in 0° - 30° No Standard techni	e less than 45° with straight span less than 3 sec que		A A A A A A
19. B-line-stall - 4.4.19         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		Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight	e less than 45° with straight span less than 3 sec que		A A A A A A A	No Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight	e less than 45° with straight span less than 3 sec que		A A A A A A A
19. B-line-stall - 4.4.19         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		Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec que		A A A A A A A A A	No Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec que		A A A A A A A A
19. B-line-stall - 4.4.19         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		Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec que less than 3 sec		A A A A A A A A A	No Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec que less than 3 sec		A A A A A A A A
19. B-line-stall - 4.4.19         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		Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in 0° - 30°	e less than 45° with straight span less than 3 sec que less than 3 sec		A A A A A A A A A A A	No Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec que less than 3 sec		A A A A A A A A A A A
19. B-line-stall - 4.4.19         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		Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in 0° - 30° Standard techni	e less than 45° with straight span less than 3 sec que less than 3 sec que less than 3 sec que		A A A A A A A A A A	No Changing course Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in 0° bis 30° Standard techni	e less than 45° with straight span less than 3 sec que less than 3 sec que		A A A A A A A A A A
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