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

Manufacturer	swing	Type testing No.	EAPR-GS-0788/18	*
	Swing Flugsportgeräte GmbH An der Leiten 4 D-82290 Landsberied	serial number	4770-99197	
Model	Nyos RS XL	I anadian	11er, Stubaital	
Comment	glider was tested with a crossline	Location	Elfer, Neustift Stubai	



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

Date of testing	04.02.2018	Minimum take off w 110 kg	eight /	Maximum take off weight 140 kg		
Testpilot		Pascal Purin		Anselm Rauh		
Harness		EAPR schwer	Messen Priden Bewerten	EAPR		
Pilot's take off weigl	ht	110 kg		138	kg	





1. Inflation / take-off - 4.4.1			Evaluation	Maximum take off weight	Evaluation
Rising behavior		no pilot correction required	Α	no pilot correction required	А
Special take off technique required		No	Α	No	Α
2. Landing - 4.4.2					
Special landing technique required		I No	A	No	A
3. Speeds in straight flight - 4.4.3		1.0		1.0	
Trim speed more than 30km/h		Yes	A	Yes	I A
Speed range using the controls larger than 10ki	m/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		25 KIIVII (0 30 KIIVII	В	25 KIIVII (O 30 KIIVII	В
Max. weight in flight up to 80kg			_		-
Max. weight in flight 80 to 100kg			-		-
Max. weight in flight greater than 100kg		Increasing >65 cm	А	Increasing >65 cm	А
5. Pitch stability exiting accelerated flight	4.4.5				
Dive forward angle on exit		Dive forward less than 30°	A Dive forward less than 30°		A
Collapse occurs		No	Ä	No	A
6. Pitch stability operating controls during a	ccelerated	flight - 4.4.6			
Collapse occurs		I No	A	No	A
7. Roll stability and damping - 4.4.7		110		1.0	, ,,
Oscillations		Reducing	A	Reducing	A
		Reducing	A	Reducing	A
8. Stability in gentle spirals - 4.4.8		To			
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fully developed spiral	l dive - 4.4.				
Initial response of glider (first 180°)		No immediate reaction	В	No immediate reaction	В
Tendency to return to straight flight		Spontaneous exit A		Spontaneous exit	A
Turn angle to recover normal flight		720° to 1080°, spontaneous recovery	В	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°	A	Rocking back less than 45°	A
Recovery	∑ paads	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α
Dive forward angle on exit	trim sp	0° - 30° Keeping course	Α	0° - 30° Keeping course	Α
Cascade occurs	_	No	A	No	A
Entry	> 20%	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	peeds	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α
Dive forward angle on exit	min se	30° - 60° Keeping course	В	0° - 30° Keeping course	Α
Cascade occurs	_	No	A	No No	A
Entry	×20%	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	accelerated > 50%	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В
Dive forward angle on exit	tocele	30° - 60° Keeping course	В	0° - 30° Keeping course	A
Cascade occurs		No	Α	No	Α
 Exiting deep stall (parachutal stall) - 4.4 	.11				
		Yes		Yes	
Deep stall achieved				i	
Deep stall achieved Recovery		Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α
•		Spontaneous in less than 3 sec 0° - 30° Changing course less than 45°	A A A	Spontaneous in less than 3 sec 0° - 30° Changing course less than 45°	A

Flight Test Report -Musterprüfnummer: EAPR-GS-0788/18 Seite 1 von 2

12. High angle of attack recovery - 4.4.12									
Recovery		Spontaneous in less than 3 sec A			А	Spontaneous in less than 3 sec			Α
Cascade occurs		No			Α	No			Α
13. Recovery from a developed full stall - 4.4.1	13								
Dive forward angle on exit		0° - 30°			A	30° - 60°			В
Collapse Cascade occurs (other than collapse)		No collapse No			A	No collapse No			A
Rocking backward		Less than 45°			Α	Less than 45°			Α
Line tension 14. Asymmetric collapse (trim speed) - 4.4.14		Most lines tight			А	Most lines tight			Α
Folding lines used		No				No			
Change of course until re-inflation		< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
	trim speed, max 50% collapse		<u> </u>				<u> </u>		
Re-inflation behavior	loo %	Spontaneous re-inflation Less than 360° No No		Α	Spontaneous re-inflation Less than 360° No No			Α	
Total change of course Collapse on the opposite side occurs	trim s c 50%			A				A	
Twist occurs	max			Α				Α	
Cascade occurs		No	1	1	Α	No	1 1		A
Change of course until re-inflation	əsc	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re	e-inflation		Α	Spontaneous re	-inflation		Α
Total change of course	n spi	Less than 360°		Α	Less than 360°			Α	
Collapse on the opposite side occurs Twist occurs	trir nax 7			A	No			A	
Cascade occurs	u	No	No No		A	No No			A
Channel of account with an inflation		.000	Discount and	15° - 45°		.000	Dive se sell seeds	150 450	^
Change of course until re-inflation	accelerated, max 50% collapse	< 90°	Dive or roll angle	10° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	rated	Spontaneous re	e-inflation		Α	Spontaneous re	-inflation		Α
Total change of course	cele 50%	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs Twist occurs	ac nax (No No			A	No No			A
Cascade occurs	_	No			Ä	No			A
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	inflation		Α	Coortonoous ro	inflation		Α
	accelerated ıx 75% colla		-IIIIatiOII			Spontaneous re-inflation Less than 360°			
Total change of course Collapse on the opposite side occurs	acce IX 75	Less than 360° No		A	No			A	
Twist occurs	ma	No			A	No	A		
Cascade occurs 15. Directional control with a maintained asymmetry.	metric col	No			А	No			Α
Able to keep course straight		Yes			А	Yes			A
180° turn away from the collapsed side possible in	10 sec	Yes			Α	Yes			Α
		14 11 11 11 11							
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			Α
16. Trim speed spin tendency - 4.4.16		T Na				I NI-			
17. Low speed spin tendency - 4.4.17	Spin occurs		No A No			INO	Α		
Spin occurs		No			Α	No			Α
18. Recovery from a developed spin - 4.4.18									
Spin rotation angle after release		Stops spinning in less than 90°			Α	Stops spinning in less than 90°			Α
Cascade occurs		No			Α	No			Α
19. B-line-stall - 4.4.19									
Change of course before release	Change of course before release		Changing course less than 45°		Α	Changing course less than 45°			Α
Behaviour before release		Remains stable with straight span		Α	Remains stable with straight span			Α	
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			Α	
Dive forward angle on exit		0° - 30°		Α	0° - 30°			Α	
Cascade occurs		No			Α	No			Α
20. Big ears - 4.4.20									
Entry procedure		Special device required			Α	Special device required			Α
Behaviour during big ears		Stable flight			Α	Stable flight			Α
Recovery		Spontaneous in less than 3 sec			Α	Spontaneous in	Α		
Dive forward angle on exit		0° - 30°		Α	0° bis 30°			Α	
21. Big Ears in accelerated flight - 4.4.21						1			
Entry procedure		Special device required		Α	Special device required			Α	
Behaviour during big ears		Stable flight		Α	Stable flight			Α	
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			Α	
Dive forward angle on exit		0° - 30°		Α	0° bis 30°			Α	
Behaviour immediately after releasing the accelarator while maintaining big ears		Stable flight			Α	Stable flight			Α
23. Alternative means of directional control - 4	1.4.22								
180° turn achievable in 20 sec		Yes			Α	Yes			Α
Stall or spin occurs		No			A	No			A
23. Any other flight procedure and/or configura	ation desc		r's manual - 4.4.	23					
Procedure works as descibed					NA NA				NA
Procedure suitable for novice pilots Cascade occurs		<u> </u>			NA NA			NA NA	
24. Remarks of testpilot:									
		L				L			