FTR - Flight Test Report

Dieser Prüfbericht darf ohne schriftliche Zustimmung der EAPR nicht, auch nicht auszugsweise, vervielfältigt werden.





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

Date of testing	30.09.2016	Minimum take off weight 90 kg	Maximum take off weight 115 kg				
Testpilot		According to the flighttests from the 30th	Santamber 2016, the following results				
Harness		According to the flighttests from the 30th September 2016, the following results have been confirmed.					
Pilot's take off weight							

Classification C



Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation		
1. Inflation / take-off - 4.4.1							
Rising behavior		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В		
Special take off technique required		No	A	No	Α		
2. Landing - 4.4.2				•			
Special landing technique required		No	A	No	Α		
3. Speeds in straight flight - 4.4.3		1.0			- /1		
Trim speed more than 30km/h		Yes	A	Yes	A		
· · · · · · · · · · · · · · · · · · ·							
Speed range using the controls larger than 10km/l	n	Yes	A	Yes	Α		
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α		
4. Control movement - 4.4.4				•			
Max. weight in flight up to 80kg			-		-		
Max. weight in flight 80 to 100kg		Increasing 45cm - 60cm	С		-		
Max. weight in flight greater than 100kg			-	Increasing 50cm - 65cm	С		
5. Pitch stability exiting accelerated flight - 4.4	1.5						
Dive forward angle on exit		Dive forward less than 30°	A	Dive forward less than 30°	Α		
Collapse occurs		No	A	No	Α		
6. Pitch stability operating controls during acc	elerated t	flight - 4.4.6	<u> </u>				
Collapse occurs		l No	A	No	Α		
7. Roll stability and damping - 4.4.7							
Oscillations		Reducing	A	Reducing	A		
8. Stability in gentle spirals - 4.4.8		reducing	_ A	reducing	A		
		Onentana sua quit					
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α		
9. Behaviour exiting a fully developed spiral d	IVE - 4.4.	No immediate reaction					
	itial response of glider (first 180°)		В	No immediate reaction Spontaneous exit	В		
Tendency to return to straight flight		Spontaneous exit 720° to 1080°, spontaneous recovery	A B	1080° to 1440°, spontaneous recovery	A C		
Turn angle to recover normal flight		120 to 1000 , sportalleous recovery	В	1000 to 1440 , sportalleous recovery	C		
10. Symmetric front collapse - 4.4.10		T.		I vi	_		
Folding lines used		No Rocking back less than 45°		No A Rocking back less than 45°			
Entry	86				Α		
Recovery	peeds	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α		
Dive forward angle on exit		0° - 30° Keeping course	Α	0° - 30° Keeping course	Α		
Cascade occurs	Ę.	No	Α	No	Α		
Entry	50%	Rocking back less than 45°	A	Rocking back less than 45°	A		
Recovery	2 × peeds	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В		
Dive forward angle on exit	- Kili	0° - 30° Keeping course	Α	0° - 30° Keeping course	Α		
Cascade occurs	5	No	Α	No	Α		
Entry	50%	Rocking back less than 45°	A	Rocking back less than 45°	Α		
Recovery	8	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В		
Dive forward angle on exit	B B D B D B D B D B D B D B D B D B D B	30° - 60° Keeping course	В	30° - 60° Entering a turn of less than 90°	В		
Cascade occurs	**	No	A	No .	Α		
11. Exiting deep stall (parachutal stall) - 4.4.1							
Deep stall achieved		Yes		Yes			
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		
Change of course		Changing course less than 45°	Α	Changing course less than 45°	Α		
Cascade occurs		No	Α	No	Α		

12. High angle of attack recovery - 4.4.12									
Recovery	Spontaneous in less th	han 3 sac		А	Spontoneous in lose than 2 and			А	
•	Spontaneous in less than 3 sec				Spontaneous in less than 3 sec				
Cascade occurs 13. Recovery from a developed full stall - 4.4.1	No			Α	No			Α	
Dive forward angle on exit	30° - 60°			В	30° - 60°			В	
Collapse	No collapse			Α	No collapse			Α	
Cascade occurs (other than collapse)	No Loca than 45°			A	No			A	
Rocking backward Line tension		Less than 45° Most lines tight			A	Less than 45° Most lines tight			A
14. Asymmetric collapse (trim speed) - 4.4.14		3				3			
Folding lines used		No				No			
Change of course until re-inflation		< 90° Dive	e or roll angle	0° - 15°	Α	< 90°	Dive or roll angle	15° - 45°	Α
De inflation behavior	tim speed, max 50% collapse	0				0	:- n-+:		
Re-inflation behavior	eeds % col	Spontaneous re-inflation Less than 360° No			Α	Spontaneous re		Α	
Total change of course Collapse on the opposite side occurs	frim (A	Less than 360° No	A		
Twist occurs	ma	No		A	No		A		
Cascade occurs				No			No		
Change of course until re-inflation	e e	90° - 180° Dive	e 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-inflati	on.		Α	Spontaneous re	inflation		Α
Total change of course	trim speed, x 75% colla	Less than 360° No				Spontaneous re-inflation Less than 360° No No			
Collapse on the opposite side occurs	trim x 75				A				A
Twist occurs	ma	No No			Α				Α
Cascade occurs		No			Α	No			Α
Change of course until re-inflation	0	< 90° Dive	e or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
_	accelerated, max 50% collapse	Country 15 11				Carat			
Re-inflation behavior	accelerated ix 50% colla	Spontaneous re-inflati	on		Α	Spontaneous re	e-inflation		Α
Total change of course Collapse on the opposite side occurs	ccell 50%	Less than 360° No			A	Less than 360° No			A
Twist occurs	max	No No			A	No No			A
Cascade occurs		No			A	No			A
Change of course until re-inflation	Φ	< 90° Dive	e or roll angle	45° - 60°	С	90° - 180°	Dive or roll angle	45° - 60°	С
De inflation behavior	accelerated, max 75% collapse	0			A	0	:- B-4:		
Re-inflation behavior	accelerated x 75% collap		pontaneous re-inflation			Spontaneous re-inflation			Α
Total change of course Collapse on the opposite side occurs	15%	Less than 360° No			A	Less than 360°			A
Twist occurs	max a	No			Ā	No	Â		
Cascade occurs		No			Α	No			Α
15. Directional control with a maintained asym	metric col								
Able to keep course straight	Yes			Α	Yes			Α	
180° turn away from the collapsed side possible in	Yes			Α	Yes	Α			
Amount of control range between turn and stall or	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	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				· · · · · · · · · · · · · · · · · · ·				
Spin occurs		No			Α	No			Α
17. Low speed spin tendency - 4.4.17									
Spin occurs		No			Α	No			Α
18. Recovery from a developed spin - 4.4.18									
Spin rotation angle after release		Stops spinning in 90° to 180°		С	Stops spinning in 90° to 180°			С	
Cascade occurs		No		A	No			Α	
19. B-line-stall - 4.4.19									
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 without straight span		oan	С	
Recovery		Spontaneous in 3 to 5 sec		В	Spontaneous in less than 3 sec			Α	
Dive forward angle on exit Cascade occurs		0° - 30° No		A	30° - 60° No			A	
20. Big ears - 4.4.20		NU			Α	NO			Α
-		Consist to the second				Carrie I I			
Entry procedure	Special device required			Α	Special device	required		Α	
Behaviour during big ears	Stable flight Recovery through pilot action in less than a further		Α				Α		
Recovery	3 sec		В	Spontaneous in less than 3 sec			Α		
Dive forward angle on exit	0° - 30°			Α	0° bis 30°			Α	
21. Big Ears in accelerated flight - 4.4.21									
Entry procedure		Special device require	ed		Α	Special device	required		Α
Behaviour during big ears	Stable flight		Α	Stable flight			Α		
Recovery	Recovery through pilot action in less than a further		В	Spontaneous in	ontaneous in less than 3 sec		Α		
Dive forward angle on exit	3 sec 0° - 30°		A	0° bis 30°			A		
Behaviour immediately after releasing the accelar	Behaviour immediately after releasing the accelarator while		Stable flight		A	Stable flight			A
maintaining big ears		Stable liight				Stable hight			
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			Α	No			Α
Stall of Spiri occurs									
23. Any other flight procedure and/or configura	ation des	cribed in the user's ma	nual - 4.4.2	23					
23. Any other flight procedure and/or configuration Procedure works as descibed	ation desc	cribed in the user's ma	nual - 4.4.2	23	NA				NA
23. Any other flight procedure and/or configure Procedure works as descibed Procedure suitable for novice pilots	ation desc	cribed in the user's ma	nual - 4.4.2	23	NA				NA
23. Any other flight procedure and/or configuration Procedure works as descibed	ation desc	cribed in the user's ma	inual - 4.4.2	23					
23. Any other flight procedure and/or configure Procedure works as descibed Procedure suitable for novice pilots Cascade occurs	ation des	cribed in the user's ma	nual - 4.4.2	23	NA				NA