FTR - Flight Test Report

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

Manufacturer	SKYWALK	Type testing No.	EAPR-GS-0437/15	
	Skywalk GmbH & Co.KG Windeckstr. 4 D-83250 Maquartstein	serial number	mx24-12.0-0019	
Model	Tonka 2- 12	Leastion	Wallberg	
		Location	Achensee	



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

Date of testing	21.07.2015	Minimum take off 60 kg	weight	Maximum take off weight 85 kg		
Testpilot		Sepp Bauer		Mike Küng		
Harness		EAPR Testeuipment		EAPR-Testequipment		
Pilot's take off weigh	nt	60 kg		85 kg		





1. Inflation / take-off - 4.4.1 Rising behavior Special take off technique required 2. Landing - 4.4.2 Special landing technique required					
Special take off technique required 2. Landing - 4.4.2					
2. Landing - 4.4.2		Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В
	Special take off technique required		Α	No	Α
Special landing technique required					
		No	А	No	А
3. Speeds in straight flight - 4.4.3					
Trim speed more than 30km/h		l Yes	l A	Yes	А
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		1			
Max. weight in flight up to 80kg			-		-
Max. weight in flight 80 to 100kg		Increasing 35cm - 45cm	D	Increasing 35cm - 45cm	D
Max. weight in flight greater than 100kg			-		-
5. Pitch stability exiting accelerated flight - 4	.4.5	1			
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	Α
Collapse occurs		No	Α	No	Α
6. Pitch stability operating controls during ac	celerated	flight - 4.4.6			
Collapse occurs		No	Α	No	А
7. Roll stability and damping - 4.4.7					
Oscillations		Reducing	A	Reducing	А
8. Stability in gentle spirals - 4.4.8			, ,,		
Tendency to return to straight flight		Spontaneous exit	l A	Spontaneous exit	А
9. Behaviour exiting a fully developed spiral	dive - 4.4.		Α	Opontarioods exit	
nitial response of glider (first 180°)		No immediate reaction	В	No immediate reaction	В
Tendency to return to straight flight		Spontaneous exit	Α	Spontaneous exit	Α
Turn angle to recover normal flight		1080° to 1440°, spontaneous recovery	С	Less than 720°, spontaneous recovery	Α
10. Symmetric front collapse - 4.4.10					
Folding lines used		No		No	
Entry	%	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	%0c ~ peeds	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α
Dive forward angle on exit	ds min	0° - 30° Keeping course	Α	30° - 60° Entering a turn of less than 90°	В
Cascade occurs	ži.	No	A	No	Α
Entry Recovery	^ 20%	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	peeds	30° - 60° Keeping course	В	30° - 60° Entering a turn of less than 90°	В
Cascade occurs	Ē	No Reeping course	A	No Entering a turn or less than 90	A
Entry	*	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	%09 < pay	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit	accelerated>	30° - 60° Keeping course	В	30° - 60° Entering a turn of less than 90°	В
Cascade occurs	acc	No	Α	No	Α
11. Exiting deep stall (parachutal stall) - 4.4.	11				
Deep stall achieved		Yes		Yes	
Recovery	covery		А	Spontaneous in less than 3 sec	А
Dive forward angle on exit		30° - 60°	В	30° - 60°	В
Change of course Cascade occurs		Changing course less than 45° No A Changing course less than 45° No A No			A

12. High angle of attack recovery - 4.4.12									
Recovery		Spontaneous in less than 3 sec			А	Spontaneous in	С		
•		·				Spontaneous in 3 to 5 sec			
scade occurs Recovery from a developed full stall - 4.4.13		No		Α	No			А	
Dive forward angle on exit	30° - 60°			В	60° - 90°			С	
Collapse	apse		No collapse		Α	No collapse			Α
Cascade occurs (other than collapse) Rocking backward	scade occurs (other than collapse)				A	No Greater than 45	•		A C
ine tension		Less than 45° Most lines tight			A	Most lines tight	'		A
14. Asymmetric collapse (trim speed) - 4.4.14									
Folding lines used		No				No			
Change of course until re-inflation	esdi	< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re-inflation			A	Spontaneous re-inflation Less than 360°			A
Total change of course Collapse on the opposite side occurs	trim x 50°	Less than 360° No		A	No			A	
Twist occurs	ä	No		Α	No			Α	
Cascade occurs		No			Α	No	1	l	Α
Change of course until re-inflation	bse	90° - 180°	Dive or roll angle	45° - 60°	С	90° - 180°	Dive or roll angle	45° - 60°	С
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re-	-inflation		Α	Spontaneous re	-inflation		Α
Total change of course	im sp 75%	Less than 360°		Α	Less than 360°			Α	
Collapse on the opposite side occurs Twist occurs	max _{tr}	No No			A	No No No			A
Cascade occurs		No			A				Ä
Change of course until re-inflation		90° - 180°	Dive or roll angle	45° - 60°	С	< 90°	Dive or roll angle	45° - 60°	С
Change of course until re-inflation	d, apse			45° - 60°				43° - 60°	
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re-	-inflation		A	Spontaneous re	-inflation		A
Total change of course Collapse on the opposite side occurs	ccel	Less than 360° No			A	Less than 360° No			A
Twist occurs	a a	No			A	No			A
Cascade occurs		No		1	Α	No	1	ı	А
Change of course until re-inflation	98	180° - 360°	Dive or roll angle	45° - 60°	С	90° - 180°	Dive or roll angle	45° - 60°	С
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re-	-inflation		Α	Spontaneous re	-inflation		А
Total change of course	cele 75%	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs Twist occurs	ac nax]	No No	No No		A	No No			A
Cascade occurs		No			A	No			A
15. Directional control with a maintained asyr	nmetric co	llapse - 4.4.15							
Able to keep course straight		Yes			Α	Yes			Α
180° turn away from the collapsed side possible	in 10 sec	Yes			Α	Yes			Α
Amount of control range between turn and stall or	r spin	25% to 50% of the symmetric control travel			С	25% to 50% of the symmetric control travel			С
16. Trim speed spin tendency - 4.4.16									
Spin occurs		No			Α	No			А
17. Low speed spin tendency - 4.4.17		LNI				I No			
Spin occurs 18. Recovery from a developed spin - 4.4.18		No			Α	No			Α
Spin rotation angle after release		Stops spinning in 90° to 180°		С	Stops spinning in less than 90°			А	
Cascade occurs			No		A	No			A
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	viour before release		Remains stable with straight span		Α	Remains stable with straight span		ı	Α
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			А	
Dive forward angle on exit		30° - 60°		Α	60° - 90°			С	
Cascade occurs 20. Big ears - 4.4.20		No			Α	No			А
,									
Entry procedure		Standard technique		A	Standard technique			A	
	Behaviour during big ears		Stable flight		A	Stable flight			A
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			Α	
Dive forward angle on exit		0° - 30°		Α	A 0° bis 30°			А	
21. Big Ears in accelerated flight - 4.4.21		I -				L			
Entry procedure		Standard technique		Α	Standard technique			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	4.4.22								
180° turn achievable in 20 sec		Yes			Α	Yes			А
Stall or spin occurs		No			Α	No			А
23. Any other flight procedure and/or configu	ration des	cribed in the user	's manual - 4.4.	23					
Procedure works as descibed				NA NA				NA NA	
Procedure suitable for novice pilots Cascade occurs	+			NA NA				NA NA	
24. Remarks of testpilot:									
		L				L			

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