FTR - Flight Test Report Dieser Prüfbericht darf ohne schriftliche Zustimmung der EAPR nicht, auch nich

Manufacturer	AIRDESIGN	Type testing No.	EAPR-GS-0785/18	
	AIRDESIGN GmbH Rhombergstraße 9 A-6967 Absam	serial number	XC11SM1PP-173622	
Model	Volt 3 S	Location	Achensee	
Comment	glider was tested with a crossline	Location	Ossiachersee	



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

Date of testing	16.10.2017	Minimum take 80 kg	~	Maximum take off weight 95 kg			
Testpilot		Mike Küng		Pascal Purin			
Harness		EAPR-Testequipmen	ıt C	EAPR schwer			
Pilot's take off weigl	ht	80	kg 🎉	95	kg		





Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation	
1. Inflation / take-off - 4.4.1				-		
		Simouti, easy and constant rising,		Omouth, easy and constant rising,		
Rising behavior		no pilot correction required	Α	no pilot correction required	Α	
Special take off technique required		No	Α	No	Α	
2. Landing - 4.4.2						
Special landing technique required		No	Α	No	Α	
3. Speeds in straight flight - 4.4.3						
Trim speed more than 30km/h		Yes	Α	Yes	Α	
Speed range using the controls larger than 10km/h		Yes	Α	Yes	Α	
Minimum speed		Less than 25 km/h	А	25 km/h to 30 km/h	В	
4. Control movement - 4.4.4						
Max. weight in flight up to 80kg			-		-	
Max. weight in flight 80 to 100kg		Increasing 45cm - 60cm	С	Increasing 45cm - 60cm	С	
Max. weight in flight greater than 100kg		-			-	
5. Pitch stability exiting accelerated flight - 4.	4.5					
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α	
Collapse occurs		No	Α	No	Α	
6. Pitch stability operating controls during acc	celerated	flight - 4.4.6				
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		Turn remains constant	С	Turn remains constant	С	
9. Behaviour exiting a fully developed spiral of	live - 4.4.	9				
Initial response of glider (first 180°)		No immediate reaction Spontaneous exit	В	No immediate reaction	B A	
	endency to return to straight flight		A	Spontaneous exit		
Turn angle to recover normal flight		1080° to 1440°, spontaneous recovery	С	1080° to 1440°, spontaneous recovery	С	
10. Symmetric front collapse - 4.4.10				1		
Folding lines used		No	^	No Basking healt less than 45°		
Entry	~ 30%	Rocking back less than 45°	Α	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	ds min	0° - 30° Entering a turn of less than 90°	Α	30° - 60° Keeping course	В	
Cascade occurs	_	No .	A	No	A	
Entry	× 20 %	Rocking back less than 45°	Α	Rocking back less than 45°	Α	
Recovery	^ paeds	Spontaneous in 3 to 5 sec	В	Spontaneous in less than 3 sec	Α	
Dive forward angle on exit	ds min	30° - 60° Entering a turn of less than 90°	В	30° - 60° Keeping course	В	
Cascade occurs		No	A	No	A	
Entry	%09	Rocking back less than 45°	Α	Rocking back less than 45°	A	
Recovery	coelerated > {	Spontaneous in 3 to 5 sec	В	Spontaneous in 3 to 5 sec	В	
Dive forward angle on exit		30° - 60° Entering a turn of less than 90°	В	30° - 60° Keeping course	В	
Cascade occurs	***	No	Α	No	Α	
11. Exiting deep stall (parachutal stall) - 4.4.1	1	LV		Lv		
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		30° - 60°	В	30° - 60°	B A	
Change of course		Changing course less than 45°	A			
Cascade occurs		No	Α	No	Α	

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			Α	No			Α
13. Recovery from a developed full stall - 4.4.	13								
Dive forward angle on exit		30° - 60°			В	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			Α	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								
Re-inflation behavior	peed coll	Spontaneous re-inflation			Α	Spontaneous re		Α	
Total change of course Collapse on the opposite side occurs	rim s 50%	Less than 360° No No			A	Less than 360° No			A
Twist occurs	max				A	No			A
Cascade occurs		No	1		Α	No			Α
Change of course until re-inflation	Se	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	45° - 60°	С
Re-inflation behavior	trim speed, max 75% collapse	Inflates in less th	han 3 sec from st	art of pilot action	С	Spontaneous re	e-inflation		Α
Total change of course	sbe 5% σ	Less than 360° No			A	Less than 360° No			A
Collapse on the opposite side occurs	trin ax 7;				Α				Α
Twist occurs Cascade occurs	Ε	No No			A	No No			A
		I		1			T		
Change of course until re-inflation	əsc	< 90°	Dive or roll angle	15° - 45°	Α	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	accelerated, max 50% collapse	Inflates in less th	han 3 sec from st	art of pilot action	С	Spontaneous re	e-inflation		Α
Total change of course	Selera 0% c	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs	acc ax 5	No			Α	No			Α
Twist occurs Cascade occurs	Ε	No No			A	No No			A A
Change of course until re-inflation		90° - 180°	Dive or roll angle	15° - 45°	В	180° - 360°	Dive or roll angle	45° - 60°	C
-	accelerated, max 75% collapse	- 100		.0 .0		100 000		10 00	
Re-inflation behavior	accelerated, ıx 75% collap	Inflates in less th	han 3 sec from st	art of pilot action	С	Spontaneous re	e-inflation		Α
Total change of course	ccele 75%	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	aamax	No No	No No		A	Yes, no turn rev	/ersai		C A
Cascade occurs		No			A	No			Α
15. Directional control with a maintained asymi	metric col								
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 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		l							
Spin occurs		No			Α	No	Α		
17. Low speed spin tendency - 4.4.17									
Spin occurs		No			Α	A No			
18. Recovery from a developed spin - 4.4.18									
Spin rotation angle after release		Stops spinning in 90° to 180°			С	Stops spinning in less than 90°			Α
Cascade occurs		No			Α	No	Α		
19. B-line-stall - 4.4.19		Changing course less than 45°			Α	Changing cours	Α		
Behaviour before release	Change of course before release		Changing course less than 45° Remains stable with straight span		A	Changing course less than 45° Remains stable with straight span			A
Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in less than 3 sec			Α	
Dive forward angle on exit Cascade occurs		30° - 60° No		A A	0° - 30° No			A A	
20. Big ears - 4.4.20		140				140			
Entry procedure		Standard technic	que		Α	Standard techni	ique		А
Behaviour during big ears		'			A	Stable flight			A
		Stable flight			В	Spontaneous in less than 3 sec			A
Recovery Dive forward angle on exit		Spontaneous in 3 to 5 sec				O° bis 30°			
Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21	0° - 30°			Α	U DIS 3U			Α	
Entry procedure	Standard technique			Α	Standard tocho	igue		А	
Behaviour during big ears		Stable flight			A	Standard technique Stable flight			A
		Spontaneous in 3 to 5 sec			A		A		
Recovery Dive forward angle on evit		Spontaneous in 3 to 5 sec				Spontaneous in 3 to 5 sec			
Dive forward angle on exit Behaviour immediately after releasing the accelarator while					Α	0° bis 30°			Α Λ
maintaining big ears Stable flight A Stable flight							Α		
23. Alternative means of directional control - 4.4.22									
180° turn achievable in 20 sec	Yes			Α	Yes			Α	
Stall or spin occurs No A No A							Α		
23. Any other flight procedure and/or configura	ation desc	cribed in the user	r's manual - 4.4.	23	110				110
Procedure works as descibed Procedure suitable for novice pilots				NA NA				NA NA	
Cascade occurs	1			NA				NA	
24. Remarks of testpilot:									
I		L				L			