## FTR - Flight Test Report

Manufacturer	independence gliders for real pilots	Type testing No.	EAPR-GS-0817/18	Fct=	
	Fly Market GmbH & Co.KG Am Schönebach 3 D-87637 Eisenberg	serial number	Proto	Messen   Prüfen   Bewerten Rev. 2.3 - 26.11.2014	
Model	Tensing 20	Leastion	Achensee	EAPR GmbH - Marktstr. 1 D-87730 Bad Grönenbach - German	
		Location	Montafon		

vervielfältigt werden

Date of testing	02.04.2018	Minimum take off weight 70 kg			Maximum take off weight 100 kg			
Testpilot		Mike Küng			Pascal Purin			
Harness		EAPR Equipment			EAPR Equipment			
Pilot's take off weig	ht	70	kg	1 Alexandre	100	kg		

Classification	В
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Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation	
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	А	No	А	
2. Landing - 4.4.2		•				
Special landing technique required		No	А	No	А	
3. Speeds in straight flight - 4.4.3		110		110		
Trim speed more than 30km/h		Yes	A	Yes	А	
Speed range using the controls larger than 10k	m/h	Yes	A	Yes	A	
Minimum speed		Less than 25 km/h	A	Less than 25 km/h	A	
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	А	
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°	А	
Collapse occurs		No	A	No	A	
6. Pitch stability operating controls during a	ccelerated	flight - 4.4.6		•		
Collapse occurs		No	А	No	А	
7. Roll stability and damping - 4.4.7						
Oscillations		Reducing	A	Reducing	А	
8. Stability in gentle spirals - 4.4.8		Heddollig	~	Reducing		
				0		
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	A	
9. Behaviour exiting a fully developed spiral	aive - 4.4.					
Initial response of glider (first 180°) Tendency to return to straight flight		Immediate reduction of rate in turn Spontaneous exit	A	Immediate reduction of rate in turn Spontaneous exit	A	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
		Less than 720; spontaneous recovery	A	Less than 720; spontalleous recovery	A	
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	ž	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A	
Dive forward angle on exit	peed	0° - 30° Entering a turn of less than	90° A	0° - 30° Keeping course	А	
Cascade occurs	Ę	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		30° - 60° Entering a turn of less than	90° B	0° - 30° Keeping course	A	
Cascade occurs	ĥ	No	A	No	А	
Entry	50%	Rocking back less than 45°	A	Rocking back less than 45°	A	
Recovery	ated > 5	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А	
Dive forward angle on exit	celer	30° - 60° Entering a turn of less than		30° - 60° Keeping course	В	
Cascade occurs	ac	No	A	No	A	
11. Exiting deep stall (parachutal stall) - 4.4	.11					
Deep stall achieved		Yes		Yes		
Recovery		Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	A	
Dive forward angle on exit		30° - 60°	В	30° - 60°		
Change of course		Changing course less than 45°	А	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	No			A	No			A	
13. Recovery from a developed full stall - 4.4.13									
Dive forward angle on exit Collapse	30° - 60° No collapse			B A	30° - 60° No collapse	B A			
Cascade occurs (other than collapse)		No			А	No	А		
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	Wost lines tight			A	Wost lines tight	A			
Folding lines used		No				No			
Change of course until re-inflation	ese	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	0° - 15°	А
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re-inflation Less than 360° No			А	Spontaneous re	-inflation		А
Total change of course	im sl 50%				A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	nax rt				A	No No			A
Cascade occurs		No		r	А	No		1	А
Change of course until re-inflation	bse	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	15° - 45°	А
Re-inflation behavior	trim speed, max 75% collapse	Spontaneous re	-inflation		А	Spontaneous re	-inflation		А
Total change of course	rim s 75%	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	ti max	No No			A	No No			A
Cascade occurs		No			A	No			A
Change of course until re-inflation	se	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	0° - 15°	А
Re-inflation behavior	accelerated, max 50% collapse	Spontaneous re	-inflation	•	A	Spontaneous re	-inflation		А
Total change of course	celei 50%	Less than 360°			А	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	ac Jax 5	No No			A	No No			A
Cascade occurs	E	NO NO			A	No			A
Change of course until re-inflation	se	90° - 180°	Dive or roll angle	15° - 45°	В	< 90°	Dive or roll angle	15° - 45°	А
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re	-inflation		А	Spontaneous re	-inflation		А
Total change of course	cele 75%	Less than 360°			А	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	ac Tax 7	No No			A	No No			A
Cascade occurs	E	No			A	No			A
15. Directional control with a maintained asymptotic	metric co	llapse - 4.4.15							
Able to keep course straight	Yes			Α	Yes			A	
180° turn away from the collapsed side possible in	10 sec	Yes			A	Yes			A
Amount of control range between turn and stall or	spin	More than 50% of the symmetric control travel			A	More than 50% of the symmetric control travel			A
16. Trim speed spin tendency - 4.4.16 Spin occurs		No			Α	No			A
17. Low speed spin tendency - 4.4.17		140				NO			
Spin occurs		No			A	No			A
18. Recovery from a developed spin - 4.4.18									
Spin rotation angle after release		Stops spinning in less than 90°			А	Stops spinning i	А		
Cascade occurs		No			A	No	A		
19. B-line-stall - 4.4.19									
Change of course before release		Changing course less than 45°			A	Changing course	A		
Behaviour before release		Remains stable with straight span			A	Remains stable	A		
Recovery Dive forward angle on exit		Spontaneous in less than 3 sec 30° - 60°			A A	Spontaneous in 0° - 30°	A A		
Cascade occurs	No			A	No	A			
20. Big ears - 4.4.20									
Entry procedure		Standard technique			А	Standard technique			А
Behaviour during big ears		Stable flight			A	Stable flight			A
Recovery		Spontaneous in less than 3 sec			A	Spontaneous in less than 3 sec			A
Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21		0° - 30°			A	0° bis 30°	A		
Entry procedure		Standard technique			A	Standard technique			А
Behaviour during big ears		Stable flight			A	Stable flight			A
Recovery		Spontaneous in less than 3 sec			А	Spontaneous in	А		
Dive forward angle on exit Behaviour immediately after releasing the accelarator while		0° - 30° Stable flight			A	0° bis 30° Stable flight	A		
maintaining big ears 23. Alternative means of directional control - 4		Stable hight			A	Stable flight			A
180° turn achievable in 20 sec	Yes			A	Yes	A			
Stall or spin occurs		No			A	No			A
23. Any other flight procedure and/or configuration	ation des	cribed in the use	r's manual - 4.4	.23					
Procedure works as descibed Procedure suitable for novice pilots				NA NA				NA NA	
Cascade occurs					NA				NA
24. Remarks of testpilot:									
		L				L			