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

Manufacturer	sidependence	Type testing No.	EAPR-GS-0816/18	FCT=
	Fly Market GmbH & Co.KG Am Schönebach 3 D-87637 Eisenberg	serial number	Proto	Messen Prüfen Bewerter Rev. 2.3 - 26.11.2014
Model	Tensing 23	Location	Montafon	EAPR GmbH - Marktstr. 1 D-87730 Bad Grönenbach - Germany
		Location	Unterberg, Kössen	

se, vervielfältigt werden

Date of testing	08.03.2018	Minimum take of 90 kg	f weight	Maximum take off 120 kg		
Testpilot		Pascal Purin		Anselm Rauh		
Harness		EAPR Equipment		EAPR		
Pilot's take off weig	ht	90 k	g School	120 kg	ante X - A	

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	A	No	А	
2. Landing - 4.4.2			•			
Special landing technique required		No	Α	No	А	
3. Speeds in straight flight - 4.4.3		10	~	10		
Trim speed more than 30km/h		Yes	А	Yes	А	
Speed range using the controls larger than 10km/h		Yes	A	Yes	A	
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	А	
4. Control movement - 4.4.4		Less Indi 25 Kimi	~		~	
Max. weight in flight up to 80kg			_			
					_	
Max. weight in flight 80 to 100kg			-		-	
Max. weight in flight greater than 100kg		Increasing >65 cm	A	Increasing >65 cm	A	
5. Pitch stability exiting accelerated flight - 4	.4.5					
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	A	
Collapse occurs		No	A	No	A	
Pitch stability operating controls during ac	celerated	flight - 4.4.6				
Collapse occurs		No	A	No	A	
7. Roll stability and damping - 4.4.7						
Oscillations		Reducing	A	Reducing	A	
8. Stability in gentle spirals - 4.4.8		· · · · ·	•	¥		
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А	
9. Behaviour exiting a fully developed spiral	livo - 4.4					
Initial response of glider (first 180°)	JIVC - 4.4.	Immediate reduction of rate in turn	A	Immediate reduction of rate in turn	A	
Tendency to return to straight flight		Spontaneous exit	A	Spontaneous exit	A	
Turn angle to recover normal flight		Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A	
10. Symmetric front collapse - 4.4.10						
· · ·		No		No		
Folding lines used Entry	- 0	No Rocking back less than 45°	A	No Rocking back less than 45°	A	
,	~ 30%			v		
Recovery		Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A	
Dive forward angle on exit	trim speed	0° - 30° Keeping course	A	0° - 30° Keeping course	A	
Cascade occurs		No	A	No	A	
Entry	> 50%	Rocking back less than 45°	A	Rocking back less than 45°	A	
Recovery	5 < beeds	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А	
Dive forward angle on exit	trim sp	0° - 30° Keeping course	A	0° - 30° Keeping course	A	
Cascade occurs		No	A	No	A	
Entry	50%	Rocking back less than 45°	A	Rocking back less than 45°	A	
Recovery	wated >	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A	
Dive forward angle on exit	acceler	0° - 30° Entering a turn of less than 90°	A	0° - 30° Keeping course	A	
Cascade occurs	.0	No	A	No	A	
11. Exiting deep stall (parachutal stall) - 4.4.1	1					
Deep stall achieved		Yes		Yes		
Recovery		Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А	
Dive forward angle on exit		30° - 60°	· 60° B 30° - 60°		В	
Change of course		Changing course less than 45°	A	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 - 4.4.1	13	140				NO			
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°			А	Less than 45°			A
Line tension 14. Asymmetric collapse (trim speed) - 4.4.14		Most lines tight			A	Most lines tight			A
Folding lines used		No				No			
Change of course until re-inflation	Φ	< 90°	Dive or roll angle	0° - 15°	А	< 90°	Dive or roll angle	0° - 15°	А
Re-inflation behavior	id, Ilaps	Coontonoouo ro	inflation		A	Spontonoouo ro	inflation		A
	trim speed, max 50% collapse	Spontaneous re-inflation Less than 360°			Spontaneous re-inflation Less than 360° No No No No				
Total change of course Collapse on the opposite side occurs		No		A			A		
Twist occurs Cascade occurs	ma	No No		A				A	
Change of course until re-inflation		< 90°	Dive or roll angle	15° - 45°	A	< 90°	Dive or roll angle	15° - 45°	A
Change of course unit re-initation	trim speed, max 75% collapse	< 90	Dive or roll angle	10 - 40	A	< 90	Dive or roll angle	10 - 40	A
Re-inflation behavior	beed colls	Spontaneous re	e-inflation		А	Spontaneous re-	inflation		A
Total change of course	im sp 75%	Less than 360°		A	Less than 360°			A	
Collapse on the opposite side occurs Twist occurs	max tr	No No			A	No No			A
Cascade occurs		No			A	No			A
Change of course until re-inflation	۵	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	15° - 45°	А
	accelerated, max 50% collapse		inflation				inflation		
Re-inflation behavior	lerate % col	Spontaneous re	e-inflation		A	Spontaneous re-	mulation		A
Total change of course Collapse on the opposite side occurs	acce < 50%	Less than 360° No			A	Less than 360° No			A
Twist occurs	ma	No			А	No			A
Cascade occurs		No		450 15-	A	No		450 150	A
Change of course until re-inflation	bse	< 90°	Dive or roll angle	15° - 45°	A	< 90°	Dive or roll angle	15° - 45°	A
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re	e-inflation		А	Spontaneous re-	inflation		А
Total change of course	accelerated ix 75% colla	Less than 360°			A	Less than 360°			А
Collapse on the opposite side occurs Twist occurs	ac nax 7	No			A	No No			A
Cascade occurs	2	No No		A	No			Â	
15. Directional control with a maintained asymptotic	metric co	llapse - 4.4.15							-
Able to keep course straight		Yes			A	Yes			A
180° turn away from the collapsed side possible in		Yes			A	Yes			A
Amount of control range between turn and stall or a 16. Trim speed spin tendency - 4.4.16	spin	More than 50%	of the symmetric	control travel	A	More than 50% of the symmetric control travel			A
Spin occurs		No			A	No			A
17. Low speed spin tendency - 4.4.17									
		Ne				L No.			
Spin occurs 18. Recovery from a developed spin - 4.4.18		No			A	No			A
18. Recovery from a developed spin - 4.4.18			in less than 90°				a less than 90°		
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release		Stops spinning i	in less than 90°		A	Stops spinning ir	n less than 90°		A
18. Recovery from a developed spin - 4.4.18			in less than 90°				n less than 90°		
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs		Stops spinning i			A	Stops spinning ir			A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19		Stops spinning i No Changing cours			A A	Stops spinning ir No Changing course			A A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release 19. B-line - 4.4.19		Stops spinning i No Changing cours	e less than 45° with straight spar		A A A	Stops spinning ir No Changing course	e less than 45° with straight span		A A A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery		Stops spinning i No Changing cours Remains stable Spontaneous in	e less than 45° with straight spar		A A A A A	Stops spinning in No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		Stops spinning i No Changing cours Remains stable	e less than 45° with straight spar		A A A A	Stops spinning in No Changing course Remains stable	e less than 45° with straight span		A A A A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit		Stops spinning i No Changing cours Remains stable Spontaneous in 0° - 30°	e less than 45° with straight spar		A A A A A A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span	· · · · · · · · · · · · · · · · · · ·	A A A A A A
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18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20		Stops spinning i No Changing cours Remains stable Spontaneous in 0° - 30° No	e less than 45° with straight spar less than 3 sec		A A A A A A A	Stops spinning in No Changing course Remains stable ' Spontaneous in 0° - 30° No	e less than 45° with straight span less than 3 sec		A A A A A A A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure		Stops spinning i No Changing cours Remains stable Spontaneous in 0° - 30° No Standard techni	e less than 45° with straight spar less than 3 sec que		A A A A A A A	Stops spinning in No Changing course Remains stable ' Spontaneous in 0° - 30° No Standard technic	viless than 45° with straight span less than 3 sec que		A A A A A A A
18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit		Stops spinning i No Changing cours Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight	e less than 45° with straight spar less than 3 sec que		A A A A A A A A A	Stops spinning in No Changing course Remains stable ' Spontaneous in 0° - 30° No Standard technic Stable flight	viless than 45° with straight span less than 3 sec que		A A A A A A A A A
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18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.4.19 Change of course before release Behaviour before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.4.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears Recovery Dive forward angle on exit Behaviour during big ears 23. Alternative means of directional control - 4 180° turn achievable in 20 sec Stall or spin occurs <td>4.4.22</td> <td>Stops spinning i No Changing cours Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in 0° - 30° Standard techni Stable flight Spontaneous in 0° - 30° Stable flight Spontaneous in 0° - 30° Stable flight</td> <td>e less than 45° with straight spar less than 3 sec que less than 3 sec que less than 3 sec</td> <td></td> <td>A A A A A A A A A A A A A A A A A A A</td> <td>Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Standard technic Stable flight Spontaneous in 0° bis 30° Special device ro Stable flight Spontaneous in 0° bis 30° Stable flight Spontaneous in 0° bis 30°</td> <td>e less than 45° with straight span less than 3 sec que less than 3 sec equired</td> <td></td> <td>A A A A A A A A A A A A A A A A A A A</td>	4.4.22	Stops spinning i No Changing cours Remains stable Spontaneous in 0° - 30° No Standard techni Stable flight Spontaneous in 0° - 30° Standard techni Stable flight Spontaneous in 0° - 30° Stable flight Spontaneous in 0° - 30° Stable flight	e less than 45° with straight spar less than 3 sec que less than 3 sec que less than 3 sec		A A A A A A A A A A A A A A A A A A A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Standard technic Stable flight Spontaneous in 0° bis 30° Special device ro Stable flight Spontaneous in 0° bis 30° Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec que less than 3 sec equired		A A A A A A A A A A A A A A A A A A A
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