



EAPR e.V - Marktstr. 11 - D-87730 Grönenbach - Germany

	Minimum take off w	eight	Maximum take off weight		
Testpilot	Anselm Rauh		Hannes Tschofen		
Harness	Academy Testequipment	Anselm Rauh	Academy Testequipment		
Pilot's take off weight	145 kg		220 kg		

Classification	
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Test-criteria		Minimum take off weight	Evaluation	Maximum take off weight	Evaluation
1. Inflation / take-off - 4.1.1					
Rising behavior		Smooth, easy and constant rising	А	Smooth, easy and constant rising	Α
Special take off technique required		l No	A	No	Α
2. Landing - 4.1.2					
Special landing technique required		No	Α	No	Α
3. Speeds in straight flight - 4.1.3					
Trim speed more than 30km/h			Α	Yes	Α
Speed range using the controls larger than 10km/l	'		А	Yes	Α
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement - 4.1.4					
Max. weight in flight up to 80kg			-		-
Max. weight in flight 80 to 100kg			-		-
Max. weight in flight greater than 100kg		Increasing >65 cm	А	Increasing >65 cm	А
5. Pitch stability exiting accelerated flight - 4.1	.5				
ive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs		No	A	No	A
6. Pitch stability operating controls during acc	elerated fl	ight - 4.1.6			
Collapse occurs		No	А	No	Α
7. Roll stability and damping - 4.1.7					
Oscillations	scillations		Reducing A Reducing		Α
8. Stability in gentle spirals - 4.1.8					
Tendency to return to straight flight			Spontaneous exit A Spont		Α
9. Behaviour in a steeply banked turn - 4.1.9					
Sink rate after two turns		Up to 12m/s	А	12m/s to 14m/s	Α
10. Symmetric front collapse - 4.1.10					
Entry	_	Rocking back less than 45°	А	Rocking back less than 45°	Α
Recovery	trim speed	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	Α
Dive forward angle on exit	.Ę	0° - 30° Keeping course	А	0° - 30° Keeping course	Α
Cascade occurs	T =	No	Α	No	Α
Entry	70	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	atec	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	А
Dive forward angle on exit	accelerated	0° - 30° Keeping course	A	0° - 30° Entering a turn of less than 90°	А
Cascade occurs	ac	No	Α	No	Α

11 Eviting doop stall (seesal stall stall)									
Exiting deep stall (parachutal stall) - 4.1.11 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° Changing course less than 45°			Α
Change of course Cascade occurs		Changing course No	e less than 45°		A	Changing course No	e less than 45°		A
12. High angle of attack recovery - 4.1.12		INO			Α	140			А
Recovery		Spontaneous in	less than 3 sec		Α	Spontaneous in	less than 3 sec		Α
Cascade occurs		No			Α	No			А
13. Recovery from a developed full stall - 4.1.1	3								
Dive forward angle on exit		0° - 30°		A				В	
Collapse Cascade occurs (other than collapse)		No collapse No		A A	No collapse		A A		
Rocking backward		Less than 45°			A	Less than 45°			A
Line tension		Most lines tight			Α	Most lines tight	nes tight		Α
14. Asymmetric collapse (trim speed) - 4.1.14									
Change of course until re-inflation	d)	< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	Α
	apse							l .	
Re-inflation behavior	trim speed, max 50% collapse	Spontaneous re-	-inflation		Α	Spontaneous re-	-inflation		Α
Total change of course		Less than 360°		Α	Less than 360°			Α	
Collapse on the opposite side occurs	ax E	No			A	No			A
Twist occurs Cascade occurs	Ε	No No			A A	No No			A A
				450 450				450 450	
Change of course until re-inflation	Se	90° - 180°	Dive 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-	inflation		Α	Spontaneous re-	inflation		Α
Total change of course	o %	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	trim speed, x 75% colla	No			A	No			A
Twist occurs	ma	No			A	No			A
Cascade occurs		No			Α	No			Α
Change of course until re-inflation		< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	15° - 45°	А
Change of course until te illination	accelerated, max 50% collapse	7 00	Dive of foil difgle	10 40	Α	100	Dive of foil drigic	10 40	
Re-inflation behavior	accelerated, x 50% collap	Spontaneous re-	inflation		Α	Spontaneous re-	inflation		Α
Total change of course	eler %	Less than 360°			Α	Less than 360°			A
Collapse on the opposite side occurs	acc ax 5	No			Α	No			Α
Twist occurs	Ĕ	No			A	No			A
Cascade occurs		No	1	I	Α	No	1	1	A
Change of course until re-inflation	Se	90° - 180°	Dive or roll angle	15° - 45°	В	90° - 180°	Dive or roll angle	15° - 45°	В
Re-inflation behavior	accelerated, max 75% collapse	Spontaneous re-	inflation		Α	Spontaneous re-	inflation		Α
	accelerated, tx 75% collap	Less than 360°				Less than 360°			
Total change of course Collapse on the opposite side occurs	100e	No			A A	No			A A
Twist occurs	may	No			A	No			A
Cascade occurs		No			Α	No			Α
15. Directional control with a maintained asym	metric col								
Able to keep course straight		Yes			Α	Yes			A
180° turn away from the collapsed side possible in	10 sec	Yes			Α	Yes			Α
Amount of control range between turn and stall or	cnin	More than 50%	of the symmetric of	control traval	Α	More than 50%	of the symmetric of	control traval	Α
-	Spiri	Wore than 50 % C	or the symmetric c	Jonii oi ii avei	A	Wore than 50 % t	or trie symmetric c	control traver	A
16. Trim speed spin tendency - 4.1.16									
Spin occurs		No			Α	No			Α
17. Low speed spin tendency - 4.1.17		No			A	No			Α
Spin occurs		INO				I INO			
18. Recovery from a developed spin - 4.1.18									
Spin rotation angle after release		Stops spinning in	n less than 90°		A	Stops spinning in	n less than 90°		A
Spin rotation angle after release Cascade occurs		Stops spinning in	n less than 90°				n less than 90°		
Cascade occurs 19. B-line-stall - 4.1.19		No			А	Stops spinning in			А
Cascade occurs					А	Stops spinning in			А
Cascade occurs 19. B-line-stall - 4.1.19		No Changing course			A A	Stops spinning ii No Changing course			A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release		No Changing course Remains stable	e less than 45° with straight span		A A A	Stops spinning in No Changing course Remains stable	e less than 45° with straight span		A A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery		No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A	Stops spinning in No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit		No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span		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
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		No Changing course Remains stable Spontaneous in	e less than 45° with straight span		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
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit		No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span		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
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs		No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span less than 3 sec		A A A A A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span less than 3 sec		A A A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20		No Changing course Remains stable v Spontaneous in 0° - 30° No	e less than 45° with straight span less than 3 sec		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
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure		No Changing course Remains stable to Spontaneous in 0° - 30° No Special device re	e less than 45° with straight span less than 3 sec		A A A A A A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re	e less than 45° with straight span less than 3 sec		A A A A A A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery		No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec		A A A A A B	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec		A A A A A A B
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit		No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight	e less than 45° with straight span less than 3 sec		A A A A A A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight	e less than 45° with straight span less than 3 sec		A A A A A A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21		No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30°	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A A B A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit		No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Special device re	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A A B	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A A A B
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21		No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A A B A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21 Entry procedure		No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight Recovery throug	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A A	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight Recovery throug	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21 Entry procedure Behaviour during big ears		No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A A A A B A A B B	Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A A A A A
Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs 20. Big ears - 4.1.20 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big Ears in accelerated flight - 4.1.21 Entry procedure Behaviour during big ears Recovery	ator while	No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight Recovery throug 3 sec	e less than 45° with straight span less than 3 sec equired 3 to 5 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 Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight Recovery throug 3 sec	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A A A A A A A B B A A B B

22. Behaviour exiting a steep spiral - 4.1.22				
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	А
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
23. Alternative means of directional control - 4	4.1.23			
180° turn achievable in 20 sec	Yes	А	Yes	Α
Stall or spin occurs	No	Α	No	Α
24. Any other flight procedure and/or configura	ation described in the user's manual - 4.1.24			
Procedure works as descibed		NA		NA
Procedure suitable for novice pilots		NA		NA
Cascade occurs		NA		NA
25. Remarks of testpilot:				
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