



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

	Minimum take off we	eight	Maximum take off weight		
Testpilot	Mike Küng		Tschofen Johannes		
Harness	Academy-Equipment	- E	Academy test Equipment	4	
Pilot's take off weight	83 kg		100 kg		

Classification	D
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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	Α	Smooth, easy and constant rising	Α
Special take off technique required		No	А	No	А
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		Yes	Α	Yes	Α
Speed range using the controls larger than 10km/l	eed range using the controls larger than 10km/h		Α	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		Increasing 45cm - 60cm	С	Increasing 45cm - 60cm	С
Max. weight in flight greater than 100kg			-		-
5. Pitch stability exiting accelerated flight - 4.1	.5				
Dive forward angle on exit		Dive forward less than 30°	Α	Dive forward less than 30°	А
ollapse occurs		No	A	No	A
6. Pitch stability operating controls during acc	elerated f	ight - 4.1.6			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping - 4.1.7					
Oscillations		Reducing	Α	Reducing	Α
8. Stability in gentle spirals - 4.1.8					
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	Α
9. Behaviour in a steeply banked turn - 4.1.9					
Sink rate after two turns		12m/s to 14m/s	Α	More than 14m/s	В
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	Α	Spontaneous in less than 3 sec	Α
Dive forward angle on exit	<u>=</u>	30° - 60° Entering a turn of less than 90°	В	30° - 60° Entering a turn of less than 90°	В
Cascade occurs	-	No	Α	No	Α
Entry	73	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	accelerated	Spontaneous in less than 3 sec	Α	Spontaneous in less than 3 sec	Α
Dive forward angle on exit	Scele	30° - 60° Entering a turn of less than 90°	В	30° - 60° Entering a turn of less than 90°	В
Cascade occurs	ğ	No	A	No	A

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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° A 0°-30°			A				
Change of course		Changing course less than 45°		A	Changing course less than 45°		A		
Cascade occurs		No			Α	No			Α
12. High angle of attack recovery - 4.1.12									
Recovery	ery Spontaneous in		less than 3 sec		Α	A Spontaneous in less than 3 sec			Α
Cascade occurs		No			Α	No			Α
13. Recovery from a developed full stall - 4.1.1	3	•							
Dive forward angle on exit		30° - 60°			В	30° - 60°			В
Collapse		No collapse			A	No collapse			A
Cascade occurs (other than collapse) Rocking backward		No Less than 45°			A A	No Less than 45°			A A
Line tension		Most lines tight			A	Most lines tight			A
14. Asymmetric collapse (trim speed) - 4.1.14									
Change of course until re-inflation		< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	0° - 15°	Α
	apse			1	,,				, ,
Re-inflation behavior	trim speed, max 50% collapse	Inflates in less th	nan 3 sec from sta	art of pilot action	С	Inflates in less th	nan 3 sec from sta	rt of pilot action	С
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	_ E	No A No No A No				A			
		90° - 180°	Dive or rollt-	150 450			Dive or rell	150 450	
Change of course until re-inflation	bse	90 - 180"	Dive or roll angle	15° - 45°	В	< 90°	Dive or roll angle	15° - 45°	Α
Re-inflation behavior	trim speed, max 75% collapse	Inflates in less th	nan 3 sec from sta	art of pilot action	С	Inflates in less th	nan 3 sec from sta	rt of pilot action	С
Total change of course	trim speed x 75% colle	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs	tri X	No			A	No			A
Twist occurs	Ĕ	No			A	No			A
Cascade occurs		No			A	No			Α
Change of course until re-inflation	Φ	90° - 180°	Dive or roll angle	45° - 60°	С	< 90°	Dive or roll angle	15° - 45°	Α
	accelerated, max 50% collapse								
Re-inflation behavior	accelerated, x 50% collap	Inflates in less th	nan 3 sec from sta	art of pilot action	С	Inflates in less th	nan 3 sec from sta	rt of pilot action	С
Total change of course	cele 50%	Less than 360°			A	Less than 360°			A
Collapse on the opposite side occurs Twist occurs	- ax xer	No No			A A	No No			A A
Cascade occurs	. =	No			A	No			A
Change of course until re-inflation		180° - 360°	Dive or roll angle	60° - 90°	D	90° - 180°	Dive or roll angle	15° - 45°	В
Change of course and to amazon	accelerated, max 75% collapse			00 00				.0 .0	
Re-inflation behavior	accelerated x 75% colla	Inflates in less th	nan 3 sec from sta	art of pilot action	С	Inflates in less th	nan 3 sec from sta	rt of pilot action	С
Total change of course	celer '5%	Less than 360°		Α	Less than 360°			Α	
Collapse on the opposite side occurs	ac ax 7	No			A	No			A
Twist occurs Cascade occurs	_ E	No No			A A	No No			A
15. Directional control with a maintained asymm	metric col					110			
Able to keep course straight		Yes			А	Yes			А
180° turn away from the collapsed side possible in	10 sec	Yes			Α	Yes			Α
	rom the collapsed side possible in 10 sec		Tes		, ,	163			
		More than 50% of the symmetric control travel A							
Amount of control range between turn and stall or	spin	More than 50%	of the symmetric of	control travel	Α	More than 50%	of the symmetric o	ontrol travel	A
Amount of control range between turn and stall or 16. Trim speed spin tendency - 4.1.16	spin	More than 50% of	of the symmetric of	control travel	А	More than 50%	of the symmetric c	ontrol travel	
<u> </u>	spin	More than 50% o	of the symmetric of	control travel	A	More than 50% o	of the symmetric o	control travel	
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17	spin		of the symmetric c	control travel			of the symmetric c	ontrol travel	A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs	spin		of the symmetric of	control travel			of the symmetric c	ontrol travel	A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17	spin	No	of the symmetric of	control travel	A	No	of the symmetric c	ontrol travel	A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs	spin	No		control travel	A	No		ontrol travel	A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18	spin	No No		control travel	A	No No		ontrol travel	A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release	spin	No Stops spinning in		control travel	A C	No Stops spinning in		ontrol travel	A A C
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs	spin	No Stops spinning in	n 90° to 180°	control travel	A C	No Stops spinning in	n 90° to 180°	ontrol travel	A A C
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19	spin	No Stops spinning in No Changing course	n 90° to 180°		A C A	No Stops spinning in No Changing course	n 90° to 180°	ontrol travel	A A C C A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release	spin	No Stops spinning in No Changing course Remains stable	n 90° to 180° e less than 45° with straight span		A C A A	No Stops spinning is No Changing course Remains stable	n 90° to 180° elless than 45° with straight span	ontrol travel	A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release	spin	No Stops spinning in No Changing course	n 90° to 180° e less than 45° with straight span		A C A	No Stops spinning in No Changing course	n 90° to 180° elless than 45° with straight span	ontrol travel	A A C A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30°	n 90° to 180° e less than 45° with straight span		A C A A A A A	No Stops spinning is No Changing course Remains stable Spontaneous in 30° - 60°	n 90° to 180° elless than 45° with straight span	ontrol travel	A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in	n 90° to 180° e less than 45° with straight span		A C A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in	n 90° to 180° elless than 45° with straight span	ontrol travel	A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release Cascade occurs 19. B-line-stall - 4.1.19 Change of course before release Behaviour before release Recovery Dive forward angle on exit	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30°	n 90° to 180° e less than 45° with straight span		A C A A A A A	No Stops spinning is No Changing course Remains stable Spontaneous in 30° - 60°	n 90° to 180° elless than 45° with straight span	ontrol travel	A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30°	n 90° to 180° e less than 45° with straight span less than 3 sec		A C A A A A A	No Stops spinning is No Changing course Remains stable Spontaneous in 30° - 60°	n 90° to 180° e less than 45° with straight span less than 3 sec	ontrol travel	A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No	n 90° to 180° e less than 45° with straight span less than 3 sec		A C A A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No	n 90° to 180° e less than 45° with straight span less than 3 sec	ontrol travel	A A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re	n 90° to 180° e less than 45° with straight span less than 3 sec equired		A C A A A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in	n 90° to 180° eless than 45° with straight span less than 3 sec equired	ontrol travel	A A A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0°-30° No Special device re Stable flight	n 90° to 180° e less than 45° with straight span less than 3 sec equired		A A A A B	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in Stable flight Spontaneous in	n 90° to 180° eless than 45° with straight span less than 3 sec equired	ontrol travel	A A A A A B
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in	n 90° to 180° e less than 45° with straight span less than 3 sec equired		A C A A A A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in Stable flight	n 90° to 180° eless than 45° with straight span less than 3 sec equired	ontrol travel	A A A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30°	n 90° to 180° e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in Stable flight Spontaneous in 0° bis 30°	n 90° to 180° eless than 45° with straight span less than 3 sec equired 3 to 5 sec	ontrol travel	A A A A B A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30°	n 90° to 180° 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	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in Stable flight Spontaneous in 0° bis 30°	n 90° to 180° eless than 45° with straight span less than 3 sec equired 3 to 5 sec	ontrol travel	A A A A A A A A A A A A A A A A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30°	n 90° to 180° e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in Stable flight Spontaneous in 0° bis 30°	n 90° to 180° eless than 45° with straight span less than 3 sec equired 3 to 5 sec	ontrol travel	A A A A B A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30°	n 90° to 180° 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	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in Stable flight Spontaneous in 0° bis 30°	n 90° to 180° e less than 45° with straight span less than 3 sec equired 3 to 5 sec	ontrol travel	A A A A A A A A A A A A A A A A A A A
16. Trim speed spin tendency - 4.1.16 Spin occurs 17. Low speed spin tendency - 4.1.17 Spin occurs 18. Recovery from a developed spin - 4.1.18 Spin rotation angle after release 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	spin	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight	n 90° to 180° 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	No Stops spinning in No Changing course Remains stable Spontaneous in 30° - 60° No Special device in Stable flight Spontaneous in 0° bis 30° Special device in Stable flight	n 90° to 180° e less than 45° with straight span less than 3 sec equired 3 to 5 sec	ontrol travel	A A A A A A A A A A A A A A A A A A A

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22. Behaviour exiting a steep spiral - 4.1.22				
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	А
23. Alternative means of directional control - 4.1.23	•			
180° turn achievable in 20 sec	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
24. Any other flight procedure and/or configuration d	escribed 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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