



European Academy of Parachute Rigging e.V - Luitpoldstr. 30 - D87700 Memmingen - Germany Under approval of EPTA European Paraglider Testlaboratory Alicane

	Minimum take off w	eight	Maximum take off w	Maximum take off weight		
Testpilot	Mike Küng		Hannes Tschofen			
Harness	Academy		Academy Test Equipment			
Pilot's take off weight	77 kg		100 kg			

Classification	В
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Test-criteria	t-criteria		Evaluation	Maximum take off weight	Evaluation
1. Inflation / take-off - 4.4.1					
Rising behavior		Smooth, easy and constant rising	А	Smooth, easy and constant rising	А
Special take off technique required	Special take off technique required		A	No	A
2. Landing - 4.4.2		-	,		
Special landing technique required		No	А	No	A
3. Speeds in straight flight - 4.4.3			•		
Trim speed more than 30km/h		Yes	А	Yes	А
Speed range using the controls larger than 10km/h		Yes	А	Yes	А
Minimum speed		Less than 25 km/h	Α	Less than 25 km/h	А
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	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°	А	Dive forward less than 30°	A
Collapse occurs		No	A	No	A
6. Pitch stability operating controls during acc	elerated t	light - 4.4.6			
Collapse occurs		No	А	No	A
7. Roll stability and damping - 4.4.7					
Oscillations		Reducing	А	Reducing	A
8. Stability in gentle spirals - 4.4.8			•		
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	A
9. Behaviour in a steeply banked turn - 4.4.9					
Sink rate after two turns		Up to 12m/s A More than 14m/s		More than 14m/s	В
10. Symmetric front collapse - 4.4.10					
Entry	I _	Rocking back less than 45°	А	Rocking back less than 45°	A
Recovery	trim speed	Spontaneous in less than 3 sec	А	Spontaneous in less than 3 sec	А
Dive forward angle on exit] E	0°-30° Keeping course	А	0° - 30° Keeping course	А
Cascade occurs	_ +	No	Α	No	Α
Entry	Ф	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	rate	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A
Dive forward angle on exit	accelerated	0°-30° Keeping course	Α	0°- 30° Keeping course	Α
Cascade occurs	ac	No	Α	No	Α

Note	The residence of the state of t									
Secondary	11. Exiting deep stall (parachutal stall) - 4.4.11 Deen stall achieved Yes				Yes					
Part Company of course										
Conseque contame	Recovery		Spontaneous in	less than 3 sec		Α	Spontaneous in	less than 3 sec		Α
A	Dive forward angle on exit		0°-30°		Α	0°-30°			Α	
19. April page of attach receivery - 4.4.12							e less than 45°			
Recovery Spontaneous in less than 3 ase			No		Α	No			Α	
Recovery from a developed full stall -4.4.15	12. High angle of attack recovery - 4.4.12						1			
1. Recovery from a developed filt stall - 4.4.13	Recovery		Spontaneous in less than 3 sec		Α	Spontaneous in	less than 3 sec		Α	
1. Recovery from a developed filt stall - 4.4.13	·		No			Δ	No		Δ	
Decidence or net		3	1.12				1			
Contraction Control Colleges No control Colleges No		<u> </u>	0°- 30°			Α	0°- 30°			Α
Each terrandon										
Most Interestants		ascade occurs (other than collapse)					No			
4. Agricultation plantation 20	-									
Caurage of course until existilation			Most lines tight		A	Wost lines light			А	
Part-Interior behavior	14. Asymmetric conapse (trim speed) - 4.4.14	l	1	T T	I		l .	I		
Canceled ecocurs	Change of course until re-inflation	ø,	< 90°	Dive or roll angle	15° - 45°	Α	< 90°	Dive or roll angle	0°- 15°	Α
Canceled ecocurs	De inflation behavior	aps Babs	C	i-flatia-	I.	^	Caratanania	inflation		^
Canceled ecocurs		eed co	·	Inflation		А	·	Inflation		А
Canceled ecocurs		im s 50%								
Canceled ecocurs		ax tr								
Change of course until re-inflation		╘								
Sportaneous re-inflation behavior				Discount	450 450			Discount and	450 450	
No	Change of course until re-inflation	Se	< 90°	Dive or roll angle	15° - 45°	А	< 90°	Dive or roll angle	15° - 45°	А
No	Re-inflation behavior	ollar	Spontaneous re-	-inflation		Α	Spontaneous re	inflation	<u> </u>	A
No		spe % co					·			
No		trim c 75								
No		max t								
Spontaneous re-inflation behavior Spontaneous re-inflation Spontaneou	Cascade occurs		No				No			Α
Spontaneous re-inflation behavior Spontaneous re-inflation Spontaneou	Observation and the factors		000		450 450		000		00 450	_
No	Change of course until re-inflation	Se	< 90°	Dive or roll angle	15°- 45°	А	< 90°	Dive or roll angle	0°- 15°	А
No	Re-inflation behavior	llap	Spontaneous re-	-inflation		Α	Spontaneous re	inflation		Α
No		eral % α	·				·			
No	· · · · · · · · · · · · · · · · · · ·	20 ce								
No		a nax								
Re-infation behavior Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Spin cocurs CT. Low speed spin tendency - 4.4.16 Spin cocurs CT. Low speed spin tendency - 4.4.16 Spin cocurs CT. Low speed spin tendency - 4.4.16 Spin cocurs CT. Low speed spin tendency - 4.4.18 Spin cocurs CT. Low speed spin tendency - 4.4.18 Spin cocurs CT. Low speed spin tendency - 4.4.16 Spin cocurs CT. Low speed spin tendency - 4.4.16 Spin cocurs CT. Low speed spin tendency - 4.4.16 Spin cocurs CT. Low speed spin tendency - 4.4.16 Spin cocurs CT. Low speed spin tendency - 4.4.18 Spin cocurs CT. Low spin spin spin spin spin spin spin spin	Cascade occurs	_	No				No			
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Cascade occurs No A Yes A Yes A 180° Land Summetric collapse - 4.4.15 Also to keep course straight Yes A Yes A Yes A A Yes A 180° turn away from the collapsed side possible in 10 sec Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A A Yes A A Yes A Yes A A Yes A A Yes A Yes A A A Yes A Yes A A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A A Ye	g	ı, apse								
Cascade occurs No A Yes A Yes A 180° Land Summetric collapse - 4.4.15 Also to keep course straight Yes A Yes A Yes A A Yes A 180° turn away from the collapsed side possible in 10 sec Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A A Yes A A Yes A Yes A A Yes A A Yes A Yes A A A Yes A Yes A A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A A Ye	Re-inflation behavior	atec	Spontaneous re-inflation		Α	Spontaneous re-inflation		Α		
Cascade occurs No A Yes A Yes A 180° Land Summetric collapse - 4.4.15 Also to keep course straight Yes A Yes A Yes A A Yes A 180° turn away from the collapsed side possible in 10 sec Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A A Yes A A Yes A Yes A A Yes A A Yes A Yes A A A Yes A Yes A A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A A Ye	Total change of course	eler 5% (Less than 360°		Α	Less than 360°			Α	
Cascade occurs No A Yes A Yes A 180° Land Summetric collapse - 4.4.15 Also to keep course straight Yes A Yes A Yes A A Yes A 180° turn away from the collapsed side possible in 10 sec Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A A Yes A A Yes A Yes A A Yes A A Yes A Yes A A A Yes A Yes A A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A Yes A A Yes A Yes A Yes A Yes A Yes A A Ye	Collapse on the opposite side occurs	acc IX 73					No			Α
15. Directional control with a maintained asymmetric collapse - 4.4.15 Able to keep course straight Yes Able to keep course straight Yes A Nore than 50% of the symmetric control travel A More than 50% of the symmetric control travel A More than 50% of the symmetric control travel A More than 50% of the symmetric control travel A No A No A No A No A No A Strops planning in less than 90° A Remains stable with straight span A O'-30°		E E								
Able to keep course straight Yes A Yes A Yes A 180° turn away from the collapsed side possible in 10 sec Yes A 798						А	No			А
180° turn away from the collapsed side possible in 10 sec Yes A Yes A 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		metric col					Ly			
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 A No A No A 17. Low speed spin tendency - 4.4.17 Spin occurs No A No A No A 18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Stops spinning in less than 90° A No A N	Able to keep course straight		Yes			A	Yes			A
16. Trim speed spin tendency - 4.4.16 Spin occurs No A No A No A No A 17. Low speed spin tendency - 4.4.17 Spin occurs No A 18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Stops spinning in less than 90° A Stopntaneous in less than 45° A Spintaneous in less than 3 sec A S	180° turn away from the collapsed side possible in 10 sec		Yes		Α	Yes		Α		
16. Trim speed spin tendency - 4.4.16 Spin occurs No A No A No A No A 17. Low speed spin tendency - 4.4.17 Spin occurs No A 18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Stops spinning in less than 90° A Stopntaneous in less than 45° A Spintaneous in less than 3 sec A S	Amount of control range between turn and stall or	enin	More than 50% of the symmetric central travel				More than 50% of the symmetric central travel			
Spin occurs No A No	Amount of control range between turn and stall of	spin	Wore than 50% C	Amount of control range between turn and stall or spin More than 50% of the symmetric control travel						
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Dive forward angle on exit Cascade occurs No A O°-30° A No A No A 20. Big ears - 4.4.20 Entry procedure Special device required A Special device required A Special flight A Stable flight A Spontaneous in less than 3 sec A Dive forward angle on exit O°-30° A O° bis 30° A Special device required A Special device required A Spontaneous in less than 3 sec A Dive forward angle on exit Entry procedure Special device required A	17. Low speed spin tendency - 4.4.17 Spin occurs 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		No Stops spinning in No Changing course	e less than 45°		A A A	No Stops spinning i No Changing course	n less than 90°		A A A
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Dive forward angle on exit 0°-30° A 0° bis 30° A Stable flight A Stable flight	17. Low speed spin tendency - 4.4.17 Spin occurs 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 21. Big Ears in accelerated flight - 4.4.21 Entry procedure		No Stops spinning is No Changing course Remains stable of Spontaneous in O°-30° No Special device re Stable flight Spontaneous in O°-30° Special device re Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec equired		A A A A A A A A	No Stops spinning i No Changing course Remains stable Spontaneous in 0°-30° No Special device re Stable flight Spontaneous in 0°bis 30°	n less than 90° less than 45° with straight span less than 3 sec		A A A A A A A A
Behaviour immediately after releasing the accelarator while Stable flight A Stable flight	17. Low speed spin tendency - 4.4.17 Spin occurs 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 Cascade occurs 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears		No Stops spinning is No Changing course Remains stable of the spin stable of the spin stable of the spin stable of the spin stable flight Special device results of the spin stable flight Special device results of the spin stable flight Special device results of the spin stable flight	e less than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in 0°-30° No Special device in Stable flight Spontaneous in 0°bis 30° Special device in Stable flight	n less than 90° eless than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A A A
	17. Low speed spin tendency - 4.4.17 Spin occurs 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 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears Recovery		No Stops spinning in No Changing course Remains stable of Spontaneous in O°-30° No Special device re Stable flight Spontaneous in O°-30° Special device re Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in 0°-30° No Special device of Stable flight Spontaneous in 0° bis 30° Special device of Stable flight Spontaneous in O° bis 30°	n less than 90° eless than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A A A A
maintaining big out	17. Low speed spin tendency - 4.4.17 Spin occurs 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 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	ator while	No Stops spinning in No Changing course Remains stable in Spontaneous in O°-30° No Special device re Stable flight Spontaneous in O°-30° Special device re Stable flight Spontaneous in O°-30°	e less than 45° with straight span less than 3 sec equired less than 3 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 0°-30° No Special device in Stable flight Spontaneous in 0°bis 30° Special device in Stable flight Spontaneous in 0°bis 30°	n less than 90° eless than 45° with straight span less than 3 sec equired less than 3 sec		A A A A A A A A A A

22. Behaviour exiting a steep spiral - 4.4.22					
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	Α	
23. Alternative means of directional control - 4.	4.23				
180° turn achievable in 20 sec	Yes	А	A Yes		
Stall or spin occurs	No	Α	No	Α	
24. Any other flight procedure and/or configuration	tion described in the user's manual - 4.4.24				
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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