



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

	Minimum take off we	eight	Maximum take off weight		
Testpilot	Mario Eder		Johannes Tschofen		
Harness	Academy Gurtzeug		AcademyTandemGurt	1	
Pilot's take off weight	115 kg		145 kg	A STATE OF THE STA	

Classification



Test-criteria		Minimum take off weight	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		No	А	No	А
2. Landing - 4.4.2					
Special landing technique required		No	Α	No	Α
3. Speeds in straight flight - 4.4.3					
Trim speed more than 30km/h		Yes	Α	Yes	Α
Speed range using the controls larger than 10km/h	ed range using the controls larger than 10km/h		Α	Yes	А
Minimum speed		Less than 25 km/h	А	Less than 25 km/h	Α
4. Control movement - 4.4.4					
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 - 4.4.5	5				
Dive forward angle on exit		Dive forward less than 30°	А	Dive forward less than 30°	А
Collapse occurs		No	А	No	А
6. Pitch stability operating controls during accel	lerated fli	ght - 4.4.6			
Collapse occurs		No	Α	No	Α
7. Roll stability and damping - 4.4.7					
Oscillations		Reducing	Α	Reducing	А
8. Stability in gentle spirals - 4.4.8					
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steeply banked turn - 4.4.9					
Sink rate after two turns		12m/s to 14m/s	А	More than 14m/s	В
10. Symmetric front collapse - 4.4.10					
Entry		Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	trim speed	Spontaneous in 3 to 5 sec	В	Spontaneous in less than 3 sec	А
Dive forward angle on exit	ΞĘ	0° - 30° Keeping course	Α	0° - 30° Keeping course	Α
Cascade occurs	+	No	А	No	А
Entry	p	Rocking back less than 45°	Α	Rocking back less than 45°	A
Recovery	rate	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A
Dive forward angle on exit	accelerated	30° - 60° Keeping course	В	30° - 60° Keeping course	В
Cascade occurs	ď	No	А	No	А

I I I EXILITO GEED STAIL (PARACIDUTAL STAIL) - 4.4. I I									
Deep stall achieved	parachutal stall) - 4.4.11 Yes			Yes					
·									
Recovery		Spontaneous in	less than 3 sec		Α	Spontaneous in	ess than 3 sec		Α
Dive forward angle on exit		0° - 30°			Α	0° - 30°			Α
Change of course		Changing course	e less than 45°		A	Changing course	less than 45°		A
12. High angle of attack recovery - 4.4.12	INO	No			No			А	
12. Figir angle of attack recovery - 4.4.12		1				l .			
Recovery		Spontaneous in	less than 3 sec		Α	Spontaneous in	ess than 3 sec		Α
Cascade occurs		No		Α	No			А	
13. Recovery from a developed full stall - 4.4.1	3								
Dive forward angle on exit		30° - 60°		В	30° - 60°			В	
Collapse		No collapse		A	No collapse No Less than 45°		A		
Cascade occurs (other than collapse) Rocking backward		No Less than 45°		A			A		
Line tension		Less than 45° Most lines tight		A	Most lines tight			A	
14. Asymmetric collapse (trim speed) - 4.4.14									
Channel of annual matterial and inflation		< 90°	Dive or roll angle	0° - 15°	Δ.	< 90°	Dive or roll angle	15° - 45°	^
Change of course until re-inflation	bse	< 90"	Dive or roll angle	0 15-	Α	< 90°	Dive or roll angle	15" - 45"	Α
Re-inflation behavior	sed,	Spontaneous re-	-inflation		Α	Spontaneous re-	inflation		Α
Total change of course	sb %	Less than 360°		A	Less than 360°			A	
Collapse on the opposite side occurs	trim speed, max 50% collapse	No			A	No			A
Twist occurs	ma	No			Α	No			Α
Cascade occurs		No	т	1	Α	No	ī		Α
Change of course until re-inflation	Φ	90° - 180°	Dive or roll angle	0° - 15°	Α	90° - 180°	Dive or roll angle	15° - 45°	В
	trim speed, max 75% collapse	-	<u></u>	1			<u> </u>		
Re-inflation behavior	Deec Co	Spontaneous re-	·inflation		Α	Spontaneous re-	inflation		Α
Total change of course	m st	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs	tri ax 7	No			Α	No			Α
Twist occurs Cascade occurs	Ē	No No			A	No No			A
Cascade occurs		NO		1	Α	NO	T		Α
Change of course until re-inflation	e e	90° - 180°	Dive or roll angle	0° - 15°	Α	< 90°	Dive or roll angle	15° - 45°	Α
Do inflation hohovior	accelerated, max 50% collapse	Coortonoous ro	inflation	ı	^	Cooptonoous ro	inflation		^
Re-inflation behavior	accelerated, x 50% collap	Spontaneous re-	Inflation		Α	Spontaneous re-	Inflation		Α
Total change of course	cele 50%	Less than 360°			Α	Less than 360°			Α
Collapse on the opposite side occurs	ax	No No			A	No No			A
Twist occurs Cascade occurs	. ೬	No	-		A	No			A
				450 450				450 450	
Change of course until re-inflation	ose	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
Total change of course	elera % c	Less than 360° No		A	Less than 360°			A	
Collapse on the opposite side occurs	acce × 75			A	No			A	
Twist occurs	ma	No			Α	No			Α
Cascade occurs		No			Α	No			А
15. Directional control with a maintained asymi	metric col								
Able to keep course straight		Yes			Α	Yes			Α
180° turn away from the collapsed side possible in	10 sec	Yes	A Yes			Α			
Amount of control range between turn and stall or	snin	More than 50% of the symmetric control travel		Α	More than 50% of the symmetric control travel		ontrol travel	Α	
-	opiii	Wiere than 60%	or the symmetrie	Sontion traver		Wiore than 0070 t	or the symmetric o		
16. Trim speed spin tendency - 4.4.16								Ontroi traver	
Spin occurs								ontrol travel	
		No			A	No		onitor traver	A
17. Low speed spin tendency - 4.4.17								Ontro traver	A
Spin occurs		No No			A	No No		Onto travel	
								Onto traver	A
Spin occurs			ı less than 90°				n less than 90°	onio navei	A
Spin occurs 18. Recovery from a developed spin - 4.4.18		No	n less than 90°		A	No	n less than 90°	onio travel	A
Spin occurs 18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release		No Stops spinning in	n less than 90°		A	No Stops spinning in	n less than 90°	Silio tavei	A A
Spin occurs 18. Recovery from a developed spin - 4.4.18 Spin rotation angle after release Cascade occurs		No Stops spinning in			A	No Stops spinning in			A A
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		No Stops spinning in No Changing course			A A	No Stops spinning in No Changing course			A A A
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		No Stops spinning in No Changing course Remains stable	e less than 45° with straight span		A A A	No Stops spinning in No Changing course Remains stable	e less than 45° with straight span		A A A A
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		No Stops spinning in No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A
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		No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30°	e less than 45° with straight span		A A A A A	No 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
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		No Stops spinning in No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A	No Stops spinning in No Changing course Remains stable Spontaneous in	e less than 45° with straight span		A A A A
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		No 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	No 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
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		No Stops spinning in 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	No 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
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		No 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	No 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
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		No Stops spinning in 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	No 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
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		No 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	No 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
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		No 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 B	No 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 B
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		No 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 equired 3 to 5 sec		A A A A A B	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in	eless than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A A B
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 in 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 A	No Stops spinning in No Changing course Remains stable Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30°	eless 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
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		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	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 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 ess 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
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 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight Spontaneous in	e less than 45° with straight span less than 3 sec equired 3 to 5 sec		A A A A B A A	No 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 Spontaneous in	e less than 45° with straight span ess 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
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 21. Big Ears in accelerated flight - 4.4.21 Entry procedure Behaviour during big ears Recovery Dive forward angle on exit		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	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 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 ess 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
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	ator while	No Stops spinning in No Changing course Remains stable of Spontaneous in 0° - 30° No Special device re Stable flight Spontaneous in 0° - 30° Special device re Stable flight Spontaneous in	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 0° - 30° No Special device re Stable flight Spontaneous in 0° bis 30° Special device re Stable flight Spontaneous in	e less than 45° with straight span ess 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

22. Behaviour exiting a steep spiral - 4.4.22				
Tendency to return to straight flight	Spontaneous exit	А	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	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 - 4.4.24			
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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