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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013 & LTF 91/09

AddressPizenska 22/1130 Czech RepublicDate of flight test11. 04. 2017Gilder modelAspen 6 24ClassificationCSerial numberG47241703010RepresentativeNonenoPlace of testVilleneuveFolding lines usednoVilleneuveFolding lines usednoVilleneuveTorst pilotFuk oka SeikoThurnheer ClaudeHarnessSupair - Access SNiviuk - Hamak MHarness to risers distance (cm)4344Total weight in flight (cm)70901. Inflation/Take-offBEasy rising, some pilot correction is reguredSpecial take off technique requiredNoANoNoASpecial take off technique requiredNoASpecial take off technique requiredNoASpecial landing	Manufacturer	Gradient s.r.o.	Certification number		PG_1173.2017	
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decreasing, rate of turn decreasing, rate of turn decreasing)	Initial response of glider (first 180°)			A	Immediate reduction of rate of turn	A
	Tendency to return to stra	aight flight	decreasing, rate of turn	A		A

Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	А
10. Symmetric front collapse	C			
Approximately 20 % about				
Approximately 30 % chord Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	A	Dive forward 30° to 60° Keeping	В
Dive forward angle on exit change of course	Course	~	course	D
Cascade occurs	No	А	No	А
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	A	Dive forward 30° to 60° / Keeping	В
	course		course	-
Cascade occurs	No	А	No	А
Folding lines used	No		No	
With accelerator				
Entry	Rocking back greater than 45°	С	Rocking back less than 45°	А
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	А	Dive forward 0° to 30° / Keeping	А
с с с	course		course	
Cascade occurs	No	А	No	A
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	A	Yes	A
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Change of course Cascade occurs	Changing course less than 45° No	A A	Changing course less than 45° No	A A
12. High angle of attack recovery	A	A	INO .	A
Recovery	A Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	A	No	A
13. Recovery from a developed full stall	A			
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Collapse	No collapse	А	No collapse	А
Cascade occurs (other than collapses)	No	А	No	А
Rocking back	Less than 45°	А	Less than 45°	А
Line tension	Most lines tight	А	Most lines tight	А
14. Asymmetric collapse	C			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	Less than 90° / Dive or roll angle	А
roll angle	0° to 15°	~	15° to 45°	~
Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
Total change of course	Less than 360°	А	Less than 360°	А
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a	A	No (or only a small number of collapsed cells with a spontaneous	A
	spontaneous reinflation)		reinflation)	
Twist occurs	No	A	No	A
Cascade occurs	No	Α	No	A
Folding lines used	No		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
Re-inflation behaviour	Spontaneous re-inflation	A	Inflates in less than 3 s from start of pilot action	С

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Spin occurs No A No A	
17. Low speed spin tendency A	
Spin occurs No A No A	
18. Recovery from a developed spin B	
Spin rotation angle after release Stops spinning in less than 90° A Stops spinning in 90° to 180° B	
Cascade occurs No A No A	
19. B-line stall A	
Change of course before release Changing course less than 45° A Changing course less than 45° A	
Behaviour before release Remains stable with straight A Remains stable with straight span A span span span A Remains stable with straight span A	
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s A	
Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A	
Cascade occurs No A No A	
20. Big ears B	
Entry procedure Standard technique A Standard technique A	
Behaviour during big ears Stable flight A Stable flight A	
Recovery Recovery through pilot action in B Spontaneous in 3 s to 5 s B less than a further 3 s	
Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A	
21. Big ears in accelerated flight B	
Entry procedure Standard technique A Standard technique A	
Behaviour during big ears Stable flight A Stable flight A	
Recovery Recovery through pilot action in B Spontaneous in 3 s to 5 s A less than a further 3 s	
Dive forward angle on exit Dive forward 0° to 30° A Dive forward 0° to 30° A	

Stable flight	A	Stable flight	A
Α			
Yes	А	Yes	А
No	А	No	А
0			
not available	0	not available	0
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not available	0	not available	0
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24. Comments of test pilot

Comments