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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



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

Address Plzenska 221/130 150 00 Praha 5 - Motol Czech Republic Date of flight test 20. 09. 2016 Glider model Nevada 2 light 22 Classification B Serial number G46221608080L Representative None Trimmer no Place of test Villeneuve Folding lines used no Fukuoka Seiko Thurnheer Claude Harness Flugsau - Lightsau Sup' Air - Altiplume M Harness to risers distance (cm) 40 43 Distance between risers (cm) 40 40 Total weight in flight (kg) 62 78 1. Inflation/Take-off A Smooth, easy and constant rising A Smooth, easy and constant rising A Special take off technique required No A No 2. Landing A No A Special instraight flight B Trim speed more than 30 km/h Yes Special instraight flight Fes A Yes Minimum speed Less than 25 km/h A 25 km/h to 30 km/h	A A
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Trim speed more than 30 km/hYesAYesSpeed range using the controls larger than 10 km/hYesAYes	
Speed range using the controls larger than 10 km/h Yes A Yes	Δ
	A A
	В
4. Control movement A	U
Max. weight in flight up to 80 kg	
Symmetric control pressure / travel Increasing / greater than 55 cm A Increasing / greater than 55 cm	A
Max. weight in flight 80 kg to 100 kg	
Symmetric control pressure / travel not available 0 not available	0
Max weight in flight greater than 400 km	
Max. weight in flight greater than 100 kg Symmetric control pressure / travel not available 0 not available	0
5. Pitch stability exiting accelerated flight A	0
Dive forward less than 30° A Dive forward less than 30°	А
Collapse occurs No A No	A
6. Pitch stability operating controls during accelerated A	
flight	
Collapse occurs No A No	A
7. Roll stability and damping A	
Oscillations Reducing A Reducing	A
8. Stability in gentle spirals A Tendency to return to straight flight Scontaneous evit	^
Tendency to return to straight flight Spontaneous exit A Spontaneous exit	A
9. Behaviour exiting a fully developed spiral dive A	^
Initial response of glider (first 180°) Immediate reduction of rate of A Immediate reduction of rate of tu turn	A
Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of turn decreasing, rate of turn decreasing) A Spontaneous exit (g force decreasing, rate of turn decreasing, rate of turn decreasing, rate of turn decreasing, rate of turn decreasing)	A)

Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
10. Symmetric front collapse	Α			
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 0° to 30° Keeping	A
	course	Λ	course	Λ
Cascade occurs	No	А	No	А
Folding lines used	No		No	
At least EQU shard				
At least 50% chord Entry	Rocking back less than 45°	А	Rocking back less than 45°	А
	-		•	A
Recovery	Spontaneous in less than 3 s Dive forward 0° to 30° / Keeping	A	Spontaneous in less than 3 s Dive forward 0° to 30° / Keeping	A
Dive forward angle on exit / Change of course	course	A	course	A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
With accelerator		-		
Entry	Rocking back less than 45°	A	5	A
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 course	A	Dive forward 0° to 30° / Keeping course	A
Cascade occurs	No	А	No	А
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	No	А
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Change of course	Changing course less than 45°	А	Changing course less than 45°	А
Cascade occurs	No	А	No	А
12. High angle of attack recovery	Α			
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Cascade occurs	No	А	No	А
13. Recovery from a developed full stall	Α			
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	В			
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 0°	А
roll angle	0° to 15°	А	to 15°	А
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	А	No (or only a small number of	А
	collapsed cells with a spontaneous reinflation)		collapsed cells with a spontaneous reinflation)	
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or	Less than 90° / Dive or roll angle	А	90° to 180° / Dive or roll angle 15°	В
roll angle	15° to 45°		to 45°	
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	A	Less than 360°	A

Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
-				
Small asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	A	Less than 90° / Dive or roll angle 15° to 45°	A
Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	A	90° to 180° / Dive or roll angle 15° to 45°	В
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 spontaneous reinflation)	A	No (or only a small number of collapsed cells with a spontaneous reinflation)	A
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
Folding lines used	No		No	
15. Directional control with a maintained asymmetric	Α			
collapse				
Able to keep course	Yes	A	Yes	A
180° turn away from the collapsed side possible in 10 s	Yes	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
16. Trim speed spin tendency	Α			
Spin occurs	No	А	No	А
17. Low speed spin tendency	Α			
Spin occurs	No	А	No	А
18. Recovery from a developed spin	Α			
Spin rotation angle after release	Stops spinning in less than 90°	A	Stops spinning in less than 90°	A
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 span	A	Remains stable with straight span	A
Recovery	Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Cascade occurs	No	А	No	А
20. Big ears	В			
Entry procedure	Standard technique	А	Standard technique	А
Behaviour during big ears	Stable flight	А	Stable flight	А
Recovery	Recovery through pilot action in	В	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit	less than a further 3 s Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
21. Big ears in accelerated flight	B	А		л
Entry procedure	Standard technique	А	Standard technique	А
Behaviour during big ears	Stable flight	A	Stable flight	A
Recovery	Recovery through pilot action in	В	Spontaneous in 3 s to 5 s	A
	less than a further 3 s	_		

Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
22. Alternative means of directional control	Α			
180° turn achievable in 20 s	Yes	А	Yes	А
Stall or spin occurs	No	А	No	А
23. Any other flight procedure and/or configuration described in the user's manual	0			
Procedure works as described	not available	0	not available	0
Procedure suitable for novice pilots	not available	0	not available	0
Cascade occurs	not available	0	not available	0

24. Comments of test pilot

Comments