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Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes

no

Folding lines used



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

Manufacturer	Gradient s.r.o.	Certification number	PG_1160.2017
Address	Plzenska 221/130	Date of flight test	13. 03. 2017

150 00 Praha 5 - Motol Czech Republic

Glider model	Aspen 6 26	Classification	С
Serial number	G47261701001	Representative	None
Trimmer	no	Place of test	Villeneuve

Test pilot Thurnheer Claude Zoller Alain

Harness Niviuk - Hamak M Gin Gliders - Gingo 2 L

Harness to risers distance (cm) 44 43

Distance between risers (cm) 44 46

Total weight in flight (kg) 85 105

1. Inflation/Take-off	В			
Rising behaviour	Easy rising, some pilot correction is required	В	Easy rising, some pilot correction is required	В
Special take off technique required	No	Α	No	Α
2. Landing	A			
Special landing technique required	No	Α	No	Α
3. Speed in straight flight	A			
Trim speed more than 30 km/h	Yes	Α	Yes	Α
Speed range using the controls larger than 10 km/h	Yes	Α	Yes	Α
Minimum speed	Less than 25 km/h	Α	Less than 25 km/h	Α
4. Control movement	С			
Max. weight in flight up to 80 kg				
Symmetric control pressure / travel	not available	0	not available	0
Max. weight in flight 80 kg to 100 kg				
Symmetric control pressure / travel	Increasing / 45 cm to 60 cm	С	not available	0
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel	not available	0	Increasing / 50 cm to 65 cm	С
5. Pitch stability exiting accelerated flight	A			
Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs	No	Α	No	Α
6. Pitch stability operating controls during accelerated flight	Α			
Collapse occurs	No	Α	No	Α
7. Roll stability and damping	A			
Oscillations	Reducing	Α	Reducing	Α
8. Stability in gentle spirals	A			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour exiting a fully developed spiral dive	A			
Initial response of glider (first 180°)	Immediate reduction of rate of turn	Α	Immediate reduction of rate of turn	Α
Tendency to return to straight flight	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	Α

Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
10. Symmetric front collapse	В			
Approximately 30 % chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit Change of course	Dive forward 0° to 30° Keeping	Α	Dive forward 0° to 30° Keeping	A
Dive forward drigte on exit offarige of course	course	^	course	^
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
At least 50% chord				
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	Α	Dive forward 30° to 60° / Keeping	В
Dive forward angle on exit? Change of course	course	^	course	Ь
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Mish accelerator				
With accelerator	Rocking back less than 45°	٨	Rocking back less than 45°	Α
Entry	Spontaneous in 3 s to 5 s	A B	Spontaneous in less than 3 s	A
Recovery Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping	А	Dive forward 30° to 60° / Keeping	В
Dive loward angle on exit? Change of course	course	^	course	Ь
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	Α	Yes	Α
Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A			
Recovery	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
Cascade occurs	No	Α	No	Α
13. Recovery from a developed full stall	A		D	
Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
Collapse	No collapse	A	No collapse	A
Cascade occurs (other than collapses)	No	A	No	A
Rocking back	Less than 45°	A	Less than 45°	A
Line tension	Most lines tight C	Α	Most lines tight	Α
14. Asymmetric collapse	C			
Small asymmetric collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α
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)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	No		No	
Laure accumunatuia ac II				
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or	90° to 180° / Dive or roll angle	P	90° to 180° / Dive or roll angle 45°	C
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 45° to 60°	C
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 collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or Clarge de occurs No N	С
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Entry procedure Standard technique A Standard technique	A
Behaviour during big ears Stable flight A Stable flight	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°	Α
21. Big ears in accelerated flight A Standard technique	Α.
Entry procedure Standard technique A Standard technique	A
Behaviour during big ears Stable flight A Stable flight Spectage of the 2.2 and Spectage of the 2.2	A
Recovery Spontaneous in less than 3 s A Spontaneous in less than 3 s	A
Dive forward 0° to 30° A Dive forward 0° to 30° A Dive forward 0° to 30°	A
Behaviour immediately after releasing the accelerator while Stable flight A Stable flight maintaining big ears	Α

22. Alternative means of directional control	Α		
180° turn achievable in 20 s	Yes	A Yes	Α
Stall or spin occurs	No	A No	Α
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