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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
Twist occurs Change of course until re-inflation / Maximum dive forward or oil angle of course until re-inflation behaviour Total change of course cours Change of the opposite side occurs Collapse on the opposite side occurs Collapse on the opposite side occurs Change of course until re-inflation / Maximum dive forward or oil angle of course course Collapse on the opposite side occurs Collapse on the opposite side occurs Collapse on the opposite side occurs Collapse occurs Collapse on the opposite side occurs Collapse occurs Collapse occurs Collapse occurs No No No No Coroniy a small number of collapsed celis with a spontaneous re-inflation) No No Coroniy a small number of collapsed celis with a spontaneous re-inflation) No No Coroniy a small number of collapsed celis with a spontaneous re-inflation of No No No Collapse occurs No No No Course until re-inflation / Maximum dive forward or oil angle of course until re-inflation / Maximum dive forward or oil angle of course until re-inflation / Maximum dive forward or oil angle of course on the opposite side occurs Collapse on the opposite side occurs No Re-inflation behaviour Collapse on the opposite side occurs No No Collapse on the opposite side occurs No No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No A No Collapse on the opposite side occurs No No	
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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	A		
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