

## Flight test report: EN



Manufacturer Address	<b>Gradient s.r.o.</b> Plzenska 221/130 150 00 Praha 5 - Motol Czech Republic	Certification number Date of flight test		PG_0302.2010 18. 01. 2010	
Representative	Dupal Ondrej	Place of test		Villeneuve	
Glider model	Golden3 26	Classification		В	
Trimmer	no			_	
THINNE	no				
	Harness	Thurnheer Claude Sup' Air - Evo XC2 M		Zoller Alain Sup'Air - Altiplume M	
	Total weight in flight (kg)	85		100	
1. Inflation/Take-off		Α			
Rising behaviour		Smooth, easy and constant rising		Smooth, easy and constant rising	A
Special take off technique	required	No	А	No	A
5		A			
		No	A	No	A
			•	No.	•
		Yes	A	Yes	A
	itrois larger than 10 km/h	Yes	A	Yes	A
•		Less than 25 km/h	A	Less than 25 km/h	A
	80 km	A			
			0		0
-		not available	0	not available	0
		la ere esian / manten them CO ere	^	have a sing / supported them CO and	•
		Increasing / greater than 60 cm	A	Increasing / greater than 60 cm	A
			0		0
		not available	0	not available	0
	accelerated flight		•		•
Special landing technique requiredN3. Speed in straight flight//Trim speed more than 30 km/h//Speed range using the controls larger than 10 km/h//Minimum speed//4. Control movement//Max. weight in flight up to 80 kg//Symmetric control pressure / travel//Max. weight in flight 80 kg to 100 kg//Symmetric control pressure / travel//Max. weight in flight greater than 100 kg//Symmetric control pressure / travel//Max. weight in flight greater than 100 kg//Symmetric control pressure / travel//Max. weight in flight greater than 100 kg//Symmetric control pressure / travel//Dive forward angle on exit//Collapse occurs//6. Pitch stability operating controls during accelerated flightCollapse occurs//7. Roll stability and damping//Øscillations//8. Stability in gentle spirals//		Dive forward less than 30°	A	Dive forward less than 30°	A
		No	A	No	A
	g controls during accelerated	A			
		No	А	No	А
7. Roll stability and damp	bing	Α			
Oscillations		Reducing	А	Reducing	А
8. Stability in gentle spira	als	Α			
Tendency to return to straight flight		Spontaneous exit	А	Spontaneous exit	А
9. Behaviour in a steeply	banked turn	В			
Sink rate after two turns		More than 14 m/s	В	More than 14 m/s	В
10. Symmetric front colla	ipse	Α			
Entry		Rocking back less than $45^{\circ}$	А	Rocking back less than 45°	А
Recovery		Spontaneous in less than 3 s	А	Spontaneous in less than 3 s	А
Dive forward angle on exit / Change of course		Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Entering a turn of less than 90°	A
Cascade occurs		No	А	No	А
With accelerator					
EntryFRecoverySDive forward angle on exit / Change of courseCCascade occursNWith acceleratorEEntryF		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	А

	Dive ferward 0° to 20° / Keeping	•	Dive ferward $0^{\circ}$ to $20^{\circ}$ / Estavise	•
Dive forward angle on exit / Change of course	Dive forward 0° to 30° / Keeping course	A	Dive forward 0° to 30° / Entering a turn of less than 90°	A
Cascade occurs	No	А	No	А
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	А	Yes	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			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 0° to 15°	Α	Less than 90° / Dive or roll angle 15° to 45°	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	$90^\circ$ to $180^\circ$ / Dive or roll angle $15^\circ$ to $45^\circ$	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle $15^{\circ}$ to $45^{\circ}$	A	Less than 90° / Dive or roll angle 15° to 45°	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	$90^\circ$ to $180^\circ$ / Dive or roll angle $15^\circ$ to $45^\circ$	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	А	No	А
Twist occurs	No	А	No	А
Cascade occurs	No	А	No	А
15. Directional control with a maintained asymmetric	Α			
collapse				
Able to keep course	Yes	Α	Yes	А
180° turn away from the collapsed side possible in 10 s	Yes	А	Yes	А
Amount of control range between turn and stall or spin	More than 50 % of the	А	More than 50 % of the symmetric control travel	А
	symmetric control travel			

A A   Spin occurs No A No A   Spin occurs A Stops spinning in less than 90° A Stops spinning in less than 90° A   Spin rotation angle after release Stops spinning in less than 90° A Stops spinning in less than 90° A   Spin rotation angle after release No A No 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 A Dive forward °t to 30° A Dive forward °t to 30° A   Cascade occurs No A No A No A   Cascade occurs No A No A A   Cascade occurs No A No A A   Cascade occurs No A No A No   Cascade occurs No A No A A   Cascade occurs No A Stable flight A Stable flight A   Cascade occurs No A Stable flight	16. Trim speed spin tendency	Α			
Spin occursNoANoANoA18. Recovery from a developed spinASpin rotation angle after releaseStops spinning in less than 90°AStops spinning in less than 90°ASpin rotation angle after releaseNoANoAChange of course before releaseChanging course less than 45°ARemains stable with straight spanABehaviour before releaseSpontaneous in less than 3 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADete forward 0° to 30°ABehaviour during big earsStable flightAStable flightABehaviour during big earsStable flightADive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°ADive forward 0° to 30°ABehaviour during big earsStable flightAStable flightABehaviour during big earsStable flightAStable flightABehaviour during big earsStable flightAStable flightA <td>Spin occurs</td> <td>No</td> <td>А</td> <td>No</td> <td>А</td>	Spin occurs	No	А	No	А
B   A     Spin rotation angle after release   Stops spinning in less than 90°   A   Stops spinning in less than 90°   A     Spin rotation angle after release   No   A   No   A     DB B-line stall   A   Changing course less than 45°   A   Remains stable with straight span   A     Behaviour before release   Changing course less than 3°   A   Remains stable with straight span   A     Recovery   Spontaneous in less than 3 s   A   Spontaneous in less than 3 s   A   Dive forward 0° to 30°   A     Cascade occurs   No   A   No   A   No   A     Cascade occurs   No   A   No   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   Dive forward 0° to 30°   A     Behaviour during big ears   Stable flight   A   Stable flight   A   Stable flight   A     Behaviour during big ears   Stable flight   A   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A     Dive forward angle on exit   Dive forwar	17. Low speed spin tendency	Α			
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A   A   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   A   Spontaneous in less than 3 s   A     Dive forward of to 30°   A   Dive forward 0° to 30°   A   Dive forward 0° to 30°   A     Cascade occurs   No   A   No   A   No   A     20. Big ears   B   Entry procedure   Dedicated controls   A   Stable flight   A   Stable flight   A     Recovery   Spontaneous in 3 s to 5 s   B   Spontaneous in 1 s to 3°   A   Dive forward 0° to 30°   A   Dive forward 0° to 30° </td <td>Spin rotation angle after release</td> <td>Stops spinning in less than 90°</td> <td>А</td> <td>Stops spinning in less than 90°</td> <td>А</td>	Spin rotation angle after release	Stops spinning in less than 90°	А	Stops spinning in less than 90°	А
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Dedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in 3 s to 5 sBSpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAAEntry procedureDedicated controlsADedicated controlsA21. Big ears in accelerated flightAStable flightABehaviour during big earsStable flightAStable flightARecoverySpontaneous in 3 s to 5 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour during big earsSpontaneous in 3 s to 5 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsAStable flightAStable flightA22. Behaviour exiting a steep spiralALess than 720°, spontaneous exitALess than 720°, spontaneous recoveryAStalt creative means of directional controlALess than 720°, spontaneous recoveryAStable flightA23. Alternative means of directional controlAYesAYesA24. Any other flight procedure and/or configuration de	Cascade occurs	No	А	No	А
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Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°A21. Big ears in accelerated flightAEntry procedureDedicated controlsABehaviour during big earsStable flightARecoverySpontaneous in 3 s to 5 sADive forward 0 g to 30°ADive forward 0° to 30°ADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator whileStable flightAStable flightABehaviour immediately after releasing the accelerator whileStable flightAStable flightA22. Behaviour exiting a steep spiralAXSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional controlAXLess than 720°, spontaneous recoveryA24. Any other flight procedure and/or configuration described in the user's manualONoANoProcedure works as describednot available0not available0not available0Procedure works as describednot available0not available0not available0Procedure works as describednot available0not available0NoANo25. Comments of test pilotState pilot0not available0No	Behaviour during big ears	Stable flight	Α	Stable flight	А
21. Big ears in accelerated flightAEntry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in 3 s to 5 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiral Tendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightSpontaneous exitALess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional control described in the user's manualAYesAA24. Any other flight procedure and/or configuration described in the user's manualOnot available0not available0Procedure works as describednot availableNo tavailable0not available000Cascade occursnot available0not available0not available0025. Comments of test pilotStato flightStato flight0Stato flight0	Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	А
Entry procedureDedicated controlsADedicated controlsABehaviour during big earsStable flightAStable flightARecoverySpontaneous in 3 s to 5 sASpontaneous in less than 3 sADive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator whileStable flightAStable flightA22. Behaviour exiting a steep spiralAStable flightAStable flightATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional controlAYesA24. Any other flight procedure and/or configuration described in the user's manualONoANoA24. Any other flight procedure and/or configuration cleascate occursnot available0not available0Procedure works as describednot available0not available0not available0Cascade occursnot available0not available0not available025. Comments of test pllotCascade occursnot available0not available0	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	А
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Dive forward angle on exitDive forward 0° to 30°ADive forward 0° to 30°ABehaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiralAAStable flightATendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional controlAXesAYesA180° turn achievable in 20 sYesAYesANoA24. Any other flight procedure and/or configuration described in the user's manualOnot available0not available0Procedure works as describednot available0not available0not available0Cascade occursnot available0not available0not available025. Comments of test pilotStatis of test pilot	Behaviour during big ears	Stable flight	А	Stable flight	А
Behaviour immediately after releasing the accelerator while maintaining big earsStable flightAStable flightA22. Behaviour exiting a steep spiral Tendency to return to straight flightASpontaneous exitASpontaneous exitATurn angle to recover normal flightSpontaneous exitALess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryA23. Alternative means of directional controlA181824. Any other flight procedure and/or configuration described in the user's manualNoANoAProcedure works as describednot available0not available00Procedure suitable for novice pilotsnot available0not available0025. Comments of test pilotStable flightStable flightStable flight025. Comments of test pilotStable flightStable flightStable flightStable flight	Recovery	Spontaneous in 3 s to 5 s	А	Spontaneous in less than 3 s	А
maintaining big ears   A     22. Behaviour exiting a steep spiral   A     Tendency to return to straight flight   Spontaneous exit   A     Turn angle to recover normal flight   Less than 720°, spontaneous at less than 720°, spontaneous at recovery   A     Sink rate when evaluating spiral stability [m/s]   15   18     23. Alternative means of directional control   A   Yes   A     180° turn achievable in 20 s   Yes   A   Yes   A     Stall or spin occurs   No   A   No   A     24. Any other flight procedure and/or configuration described in the user's manual   not available   0   not available   0     Procedure works as described   not available   0   not available   0   on tavailable   0     Procedure suitable for novice pilots   not available   0   not available   0   ot available   0     Cascade occurs   not available   0   not available   0   ot available   0     Ptocedure stribed   State occurs   not available   0   not available   0     Ptocedure suitable for novice pilots   not available	Dive forward angle on exit	Dive forward 0° to 30°	А	Dive forward 0° to 30°	А
Tendency to return to straight flightSpontaneous exitASpontaneous exitATurn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]151823. Alternative means of directional controlAYesA180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualOInot available0Procedure works as describednot available0not available0Procedure suitable for novice pilotsnot available0not available0Cascade occursnot available0not available025. Comments of test pilotItem serverItem serverItem server	Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A	Stable flight	A
Turn angle to recover normal flightLess than 720°, spontaneous recoveryALess than 720°, spontaneous recoveryASink rate when evaluating spiral stability [m/s]151823. Alternative means of directional controlA18A180° turn achievable in 20 sYesAYesAStall or spin occursNoANoA24. Any other flight procedure and/or configuration described in the user's manualOnot available0Procedure works as describednot available0not available0Procedure suitable for novice pilotsnot available0not available0Cascade occurs0not available0not available025. Comments of test pilot15151515	22. Behaviour exiting a steep spiral	Α			
recoveryrecoveryrecoverySink rate when evaluating spiral stability [m/s]151823. Alternative means of directional controlA	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	А
23. Alternative means of directional control   A     180° turn achievable in 20 s   Yes   A   Yes   A     Stall or spin occurs   No   A   No   A     24. Any other flight procedure and/or configuration described in the user's manual   0   Image: Control of Control of Configuration described in the user's manual   0   Not available   0     Procedure works as described   not available   0   not available   0   0     Procedure suitable for novice pilots   not available   0   not available   0   0     Cascade occurs   not available   0   not available   0   0   0     25. Comments of test pilot   Stational   Stational   Stational   Stational   0	Turn angle to recover normal flight		A		А
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24. 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   0     25. Comments of test pilot   0   not available   0   0	180° turn achievable in 20 s	Yes	Α	Yes	А
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Procedure suitable for novice pilots   not available   0   not available   0     Cascade occurs   not available   0   not available   0     25. Comments of test pilot   0   10   10	24. Any other flight procedure and/or configuration described in the user's manual	0			
Cascade occurs not available 0 not available 0   25. Comments of test pilot 0 0 0	Procedure works as described	not available	0	not available	0
25. Comments of test pilot	Procedure suitable for novice pilots	not available	0	not available	0
•	Cascade occurs	not available	0	not available	0
Comments	25. Comments of test pilot				
	Comments				