

 
 Manufacturer
 Gradient s.r.o.

 Address
 Plzeňská 221/130

 150 00 Praha 5 - Motol Czech Republic

 Representive
 none

 Type of glider
 Avax XC 2 26

 Trimmer
 not available
 Certification number Date of flight test Place of test PG 100.2007 28/08/2007 Villeneuve



Classification C

Test PilotClaude ThurnheerHarnessSkyAxel II M 44cmTotal weight in flight85 kg

Chris Geist SOL Slider 105 kg

		Min weight	Max weight
1. Inflation/Tal			
	Rising behaviour	collapse	C Overshoots, shall be slowed down to avoid front collapse
	Special take off technique required	No	A No
2. Landing	Special landing technique required	No	
3. Speed in st		No	A No
5. Speed in su	Trim speed more than 30 km/h	Yes	A Yes
	Speed range using the controls larger than 10 km/h		A Yes
	Minimum speed		A 25 km/h to 30 km/h
4. Control mov	vement		
	Max. weight in flight up to 80 kg		
	Symmetric control pressure/travel	not available	0 not available
	Max. weight in flight 80 kg to 100 kg		
	Symmetric control pressure/travel	Increasing, 45 cm to 60 cm	C not available
	Max. weight in flight greater than 100 kg Symmetric control pressure/travel	net evellette	O Increasing 45 cm to 60 cm
5 Ditch stabili	ity exiting accelerated flight	not available	0 Increasing, 45 cm to 60 cm
J. FILCH SLADIN	Dive forward angle on exit	Dive forward less than 30°	A Dive forward less than 30°
	Collapse occurs		A No
6. Pitch stabili	ity operating controls during accelerated flight		
	Collapse occurs	No	A No
7. Roll stability	y and damping		
	Oscillations	Reducing	A Reducing
8. Stability in g			
	Tendency to return to straight flight	Spontaneous exit	A Spontaneous exit
9. Benaviour i	n a steeply banked turn	12 m/s to 14 m/s	A More than 14 m/s
10 Symmetric	Sink rate after two turns	12 11//5 10 14 11//5	
ro. Oynimetric	Entry	Rocking back less than 45°	A Rocking back less than 45°
	Recovery		A Spontaneous in less than 3 s
	Dive forward angle on exit		A Dive foward 30°to 60°, Entering a turn less than
			90°
	Cascade occurs	No	A No
	With accelerator		
	Entry	Rocking back greater than 45°	C Rocking back less than 45°
	Recovery	· ·	A Spontaneous in 3 s to 5 s
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	A Dive foward 30° to 60°, Entering a turn less than
	Oracida e como	Ne	90°
11 Exiting do	Cascade occurs ep stall (parachutal stall)	No	A No
IT. Exiting det	Deep stall achieved	Yes	A Yes
	Recovery		A Spontaneous in less than 3 s
	Dive forward angle on exit		A Dive forward 0°to 30°
	Change of course		A Changing course less than 45°
	Cascade occurs		A No
12. High angle	e of attack recovery		
	Recovery		A Spontaneous in less than 3 s
	Cascade occurs	No	A No
13. Recovery 1	from a developed full stall Dive forward angle on exit	Dive forward 30°to 60°	B Dive forward 30°to 60°
	Collapse		A No collapse
	Cascade occurs (other than collapse)		A No conapse
	Rocking back		A Less than 45°
	Line tension	Most line tight	A Most line tight
14. Asymmetr		Most line tight	A Most line tight
14. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle	·	
14. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	A Less than 90°, Dive or roll angle 15° to 45°
14. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation	A Less than 90°, Dive or roll angle 15° to 45° A Spontaneous re-inflation
14. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	A Less than 90°, Dive or roll angle 15° to 45° A Spontaneous re-inflation A Less than 360°
14. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No	A Less than 90°, Dive or roll angle 15° to 45° A Spontaneous re-inflation A Less than 360° A No
I4. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No	A Less than 90°, Dive or roll angle 15° to 45° A Spontaneous re-inflation A Less than 360° A No A No
I4. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No	A Less than 90°, Dive or roll angle 15° to 45° A Spontaneous re-inflation A Less than 360° A No
4. Asymmetr	ic collapse With 50% collapse-Maximum dive forward or roll angle Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs With 75% collapse-Maximum dive forward or roll angle	Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No No No	<ul> <li>A Less than 90°, Dive or roll angle 15° to 45°</li> <li>A Spontaneous re-inflation</li> <li>A Less than 360°</li> <li>A No</li> <li>A No</li> <li>A No</li> <li>A No</li> <li>A No</li> </ul>
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	Re-inflation behaviour	Spontaneous re-inflation	А	Spontaneous re-inflation	А
	Total change of course	Less than 360°	A	Less than 360°	A
	Collapse on the opposite side occurs	No	A	No	A
	Twist occurs	No	А	No	А
	Cascade occurs	No	A	No	A
	With 75% collapse and accelerator-Maximum dive forward o				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 60° to 90°	С	90° to 180°, Dive or roll angle 45° to 60°	С
	Re-inflation behaviour	Spontaneous re-inflation	Ă	Spontaneous re-inflation	A
	Total change of course	Less than 360°	Â	Less than 360°	Â
		No	Â	No	A
	Collapse on the opposite side occurs			No	
	Twist occurs	No	A		A
	Cascade occurs	No	Α	No	A
15. Direction	al control with a maintained asymmetric collapse				
	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	А
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	А	25 % to 50 % of the symmetric control travel	С
16. Trim spe	ed spin tendency				
	Spin occurs	No	Α	No	Α
17. Low spee	ed spin tendency				
	Spin occurs	No	Α	No	Α
18. Recovery	/ from a developed spin				
-	Spin rotation angle after release	Stops spinning in 90° to 180°	С	Stops spinning in 90°to 180°	С
	Cascade occurs	No	А	No	А
19. B-line sta	all				
	Change of course before release	Change of course less than 45°	А	Change of course less than 45°	А
	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 30° to 60°	Â		
	Dive forward angle on exit			Dive forward 0° to 30°	A
00 D'	Cascade occurs	No	A	No	A
20. Big ears	Entranceschurz	Other shared to share in the		Observational to sharing a	
	Entry procedure	Standard technique	A	Standard technique	Α
	Behaviour during big ears	Stable flight	А	Stable flight	А
	Recovery	Recovery through pilot action in less than a	В	Recovery through pilot action in less than a	В
		further 3 s		further 3 s	
	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
21. Big ears	in accelerated flight				
	Entry procedure	Standard technique	Α	Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	А
	Recovery	Recovery through pilot action in less than a	в	Recovery through pilot action in less than a	В
		further 3 s		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	Stable flight	A	Stable flight	A
22 Bohaviou	ir exiting a steep spiral	Stable light	~	Stable light	~
ZZ. Benaviou		Spontonoous ovit	А	Spontonogua avit	А
	Tendency to return to straight flight	Spontaneous exit	A	Spontaneous exit	C
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	А	720° to 1080°, spontaneous recovery	C
	Sink rate when evaluating spiral stability [m/s]	16 m/s		17 m/s	
23. Alternativ	ve means of directional control				
	180° turn achievable in 20 s	Yes	А	Yes	А
	Stall or spin occurs	No	А	No	А
24. Any othe	r flight procedure and/or configuration described in the us	er's manual			
	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		0
Comments o					
	Comments	confirmation flight 12/09/07, after modification		confirmation flight 14/09/07 by Alain	



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