Flight test report

Manufacturer Gradient s.r.o. Plzeňská 221/130 Address

150 00 Praha 5 - Motol

Czech Republic

Representive None Type of glider Avax XC2 24 not available Trimmer

PG 108.2007 Certification number Date of flight test 07/11/2007 Villeneuve Place of test



Classification C

Claude Thurnheer Gin Genie 3 95 kg Test Pilot Seiko Fukuoka Harness advance progress Total weight in flight 75 kg

		Min weight		Max weight	
1. Inflation/Ta					
	Rising behaviour	Overshoots, shall be slowed down to avoid front	С	Overshoots, shall be slowed down to avoid front	С
		collapse		collapse	
0.1	Special take off technique required	No /	A	No	Α
2. Landing	Special landing technique required	No /	Αl	No	Α
3. Speed in s		7	^	110	
от ороса с	Trim speed more than 30 km/h	Yes	Α	Yes	Α
	Speed range using the controls larger than 10 km/h			Yes	Α
	Minimum speed	Less than 25 km/h	Α	25 km/h to 30 km/h	В
4. Control mo					
	Max. weight in flight up to 80 kg				
	Symmetric control pressure/travel	Increasing, 40 cm to 55 cm	С	not available	0
	Max. weight in flight 80 kg to 100 kg	not available	0	Increasing 45 cm to 60 cm	С
	Symmetric control pressure/travel Max. weight in flight greater than 100 kg	not available	٥	Increasing, 45 cm to 60 cm	C
	Symmetric control pressure/travel	not available	0	not available	0
5. Pitch stabi	lity exiting accelerated flight				
	Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	Α
	Collapse occurs	No /	Α	No	Α
Pitch stabi	lity operating controls during accelerated flight				
7 5	Collapse occurs	No /	A	No	Α
7. Roll stabili	ty and damping	Podusing	,	Reducing	^
8 Stability in	Oscillations gentle spirals	Reducing	A	Reducing	Α
o. Glability In	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour	in a steeply banked turn	, openialicous exit	^	oponianeous exit	,,
	Sink rate after two turns	More than 14 m/s	В	More than 14 m/s	В
10. Symmetri	ic front collapse				
	Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
	Recovery			Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course		Dive foward 0°to 30°, Entering a turn less than	Α
				90°	
	Cascade occurs With accelerator	No /	A	No	Α
	Entry	Rocking back less than 45°	А	Rocking back greater than 45°	С
	Recovery	· · · · · ·		Spontaneous in less than 3 s	A
	Dive forward angle on exit			Dive foward 0°to 30°, Keeping course	Α
		90°			
	Cascade occurs	No /	Α	No	Α
11. Exiting deep stall (parachutal stall)					
	Deep stall achieved			Yes	Α
	Recovery			Spontaneous in less than 3 s	Α
	Dive forward angle on exit Change of course			Dive forward 0°to 30° Changing course less than 45°	A A
	Cascade occurs			No	A
12. High angl	le of attack recovery				- 1
gg.	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
	Cascade occurs	No /	Α	No	Α
13. Recovery	from a developed full stall				
	Dive forward angle on exit			Dive forward 30°to 60°	В
	Collapse			No collapse	A
	Cascade occurs (other than collapse) Rocking back			No Less than 45°	A
	Line tension			Most line tight	A
14. Asymmet					- 1
.,	With 50% collapse-Maximum dive forward or roll angle				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15°	Α	Less than 90°, Dive or roll angle 15° to 45°	Α
	Re-inflation behaviour			Spontaneous re-inflation	Α
	Total change of course			Less than 360°	Α
	Collapse on the opposite side occurs			No	A
	Twist occurs			No No	A
	Cascade occurs With 75% collapse-Maximum dive forward or roll angle	No /	A	INU	Α
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	А	90° to 180°, Dive or roll angle 45° to 60°	С
	Re-inflation behaviour	and the second of the second o		Spontaneous re-inflation	A
	Total change of course			Less than 360°	A
	Collapse on the opposite side occurs			No	Α
	Twist occurs	No /		No	Α
	Cascade occurs		Α	No	Α
	With 50% collapse and accelerator-Maximum dive forward or				
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	Less than 90°, Dive or roll angle 15° to 45°	Α

	Re-inflation behaviour	Chantanagua ra inflation	۸	Spontaneous re-inflation	٨
		Spontaneous re-inflation Less than 360°	A	Less than 360°	A
	Total change of course		A	No	A A
	Collapse on the opposite side occurs Twist occurs	No No	A	No	A
	Cascade occurs	No	A	No	A
	With 75% collapse and accelerator-Maximum dive forward o		^	NO	^
	Change of course until re-inflation	180° to 360°, Dive or roll angle 15° to 45°	С	90° to 180°, Dive or roll angle 60° to 90°	С
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	A
	Total change of course	Less than 360°	A	Less than 360°	A
	Collapse on the opposite side occurs	Yes, no turn reversal	C	No.	A
	Twist occurs	No	Α	No	Α
	Cascade occurs	No	A	No	A
15 Direction	al control with a maintained asymmetric collapse	110	,,	110	,,
TO. Direction	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	Α	More than 50 % of the symmetric control travel	Α
16. Trim spec	ed spin tendency	more than see /s or the symmetric control travel	•	more than so 70 or the cynmonic control travel	- ' '
	Spin occurs	No	Α	No	Α
17. Low spec	ed spin tendency				
	Spin occurs	No	Α	No	Α
18. Recovery	r from a developed spin				
,	Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
	Cascade occurs	No	Α	No	Α
19. B-line sta	ıll				
	Change of course before release	Change of course less than 45°	Α	Change of course less than 45°	Α
	Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
	Cascade occurs	No	Α	No	Α
20. Big ears					
_	Entry procedure	Standard technique	Α	Standard technique	Α
	Behaviour during big ears	Stable flight	Α	Stable flight	Α
	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	Α
	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
	Behaviour immediately after releasing the accelerator while	Stable flight	Α	Stable flight	Α
22. Behaviou	ır exiting a steep spiral				
	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
	Sink rate when evaluating spiral stability [m/s]	16 m/s		18 m/s	
23. Alternativ	ve means of directional control				
	180° turn achievable in 20 s	Yes	Α	Yes	Α
	Stall or spin occurs	No	Α	No	Α
24. Any othe	r flight procedure and/or configuration described in the us				
	Procedure works as described	not available	0	not available	C
	Procedure suitable for novice pilots	not available	0	not available	C
	Cascade occurs	not available	0	not available	C
Comments o	•				
	Comments	no		no	



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