Flight test report

Manufacturer PRO-Design, Hofbauer GmbH.

Address Zimmeterweg 4 6020 Innsbruck

6020 Innsbruck Austria

Representive None
Type of glider Cuga 90
Trimmer not available

Certification number
Date of flight test
Place of test

PG 124.2008 07/02/2008 Villeneuve



Classification B

Test Pilot Claude Thurnheer Alain Zoller
Harness Gin Genie III M 45cm Sol - Slider L
Total weight in flight 90 kg 110 kg

		Min weight	Max weight	
1. Inflation/Ta	ke-off			
	Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising	Α
	Special take off technique required	No A	No No	Α
2. Landing				
0.0	Special landing technique required	No A	A No	Α
3. Speed in s		Yes	l Van	^
	Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h	Yes A		A A
	Minimum speed	Less than 25 km/h		A
4. Control mo	·	Less than 25 km/m	Less than 25 km/m	_
	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, Greater than 60 cm	not available	0
	Max. weight in flight greater than 100 kg			
	Symmetric control pressure/travel	not available	0 Increasing, Greater than 65 cm	Α
5. Pitch stabi	lity exiting accelerated flight			
	Dive forward angle on exit	Dive forward less than 30°		A
C Ditab atabi	Collapse occurs	No A	A No	Α
6. Pitch Stabi	lity operating controls during accelerated flight	No	A No	Λ
7 Roll stabili	Collapse occurs ty and damping	No A	NO INC	Α
. Non Stabili	Oscillations	Reducing A	Reducing	Α
8. Stability in	gentle spirals			, ,
	Tendency to return to straight flight	Spontaneous exit	Spontaneous exit	Α
9. Behaviour	in a steeply banked turn			
	Sink rate after two turns	12 m/s to 14 m/s	More than 14 m/s	В
10. Symmetri	c front collapse			
	Entry	Rocking back less than 45°	Rocking back less than 45°	Α
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s	Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	Dive foward 0°to 30°, Keeping course	Α
	Cascade occurs	No A	A No	Α
	With accelerator			
	Entry	Rocking back less than 45°	- Control of the Cont	Α
	Recovery	Spontaneous in less than 3 s		Α
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course		A
11 Eviting de	Cascade occurs	No A	A No	Α
11. Exiting ue	ep stall (parachutal stall) Deep stall achieved	Yes A	Yes	Α
	Recovery	Spontaneous in less than 3 s		Α
	Dive forward angle on exit	Dive forward 0°to 30°	•	Α
	Change of course	Changing course less than 45°		Α
	Cascade occurs	No A		Α
12. High angl	e of attack recovery			
	Recovery	Spontaneous in less than 3 s		Α
	Cascade occurs	No A	A No	Α
13. Recovery	from a developed full stall			
	Dive forward angle on exit	Dive forward 0°to 30°		Α
	Collapse	No collapse	·	Α
	Cascade occurs (other than collapse)	No ASS		A
	Rocking back	Less than 45°		A
14. Asymmet	Line tension	Most line tight	Most line tight	Α
14. Asymmet	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°	Less than 90°, Dive or roll angle 0° to 15°	Α
	Re-inflation behaviour	Spontaneous re-inflation	The state of the s	A
	Total change of course	Less than 360°		Α
	Collapse on the opposite side occurs	No A		Α
	Twist occurs	No A		Α
	Cascade occurs		A No	Α
	With 75% collapse-Maximum dive forward or roll angle			
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°		Α
	Re-inflation behaviour	Spontaneous re-inflation A	· ·	Α
	Total change of course	Less than 360°		Α
	Collapse on the opposite side occurs	No A		Α
	Twist occurs	No A		Α
	Cascade occurs	No A	A No	Α
	With 50% collapse and accelerator-Maximum dive forward of		Library than 000 Physical III 1 200 150	
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°		A
	Re-inflation behaviour Total change of course	Spontaneous re-inflation Less than 360°	·	A
	Collapse on the opposite side occurs	Less than 360° No		A A
	Conapac of the opposite side occurs	110	T III	

	Twist occurs	No	۸	No	۸
	Cascade occurs	No.		No	A A
	With 75% collapse and accelerator-Maximum dive forward or		А	INO	A
	Change of course until re-inflation	Less than 90°, Dive or roll angle 15° to 45°	Α	90° to 180°, Dive or roll angle 0° to 15°	Α
	Re-inflation behaviour	Spontaneous re-inflation	A	Spontaneous re-inflation	A
	Total change of course	Less than 360°	A	Less than 360°	A
		No	A	No	A
	Collapse on the opposite side occurs Twist occurs		A	No	
		No No	A		A
15 Direction	Cascade occurs al control with a maintained asymmetric collapse	NO	А	No	Α
15. Directiona	Able to keep course	Yes	Α	Yes	Α
	180° turn away from the collapsed side possible in 10 s	Yes	A	Yes	A
4C Tuim ana	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 spee	ed spin tendency	Na	^	No	^
17 Law anao	Spin occurs d spin tendency	No	Α	INO	Α
17. Low spee	Spin occurs	No	Α	No	Α
10 Bassyany	from a developed spin	NO	А	INO	A
io. Recovery		Stone eninning in lose than 00°	٨	Stans animping in loss than 00°	^
	Spin rotation angle after release Cascade occurs	Stops spinning in less than 90°	A A	Stops spinning in less than 90° No	A A
19. B-line sta		NO	А	INO	А
19. B-line Sta		Change of course less than 45°	Α	Change of course less than 45°	
	Change of course before release Behaviour before release	Remains stable with straight span	A	Remains stable with straight span	A A
	Recovery	Spontaneous in less than 3 s Dive forward 0° to 30°	A A	Spontaneous in less than 3 s Dive forward 0° to 30°	A A
	Dive forward angle on exit Cascade occurs	No	A	No	A
20. Big ears	Cascade occurs	NO	А	INO	А
Zu. Big ears	Entry procedure	Standard technique	Α	Dedicated controls	Α
	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°	A
24 Pig core i	n accelerated flight	Dive lorward 0 to 30	А	Dive lorward 0 to 30	A
ZI. big ears i	Entry procedure	Standard technique	Α	Dedicated controls	Α
		Stable flight	A	Stable flight	A
	Behaviour during big ears	Spontaneous in less than 3 s	A	Spontaneous in less than 3 s	A
	Recovery Dive forward angle on exit	Dive forward 0° to 30°	A	Dive forward 0° to 30°	A
	Behaviour immediately after releasing the accelerator while	Stable flight	A	Stable flight	A
	, ,	Stable light	^	Stable liight	
22 Rehaviou	maintaining big ears r exiting a steep spiral				
ZZ. Dellaviou	Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
	Sink rate when evaluating spiral stability [m/s]	16 m/s	^	23 m/s	^
23 Alternativ	re means of directional control	10 11//3		20 11/3	
23. Alternativ	180° turn achievable in 20 s	Yes	Α	Yes	Α
		No.	A	No	
24 Any other	Stall or spin occurs r flight procedure and/or configuration described in the us-	***	А	INU	Α
24. Any other	Procedure works as described	not available	0	not available	0
		not available	0	not available	0
	Procedure suitable for novice pilots Cascade occurs	not available	0	not available	0
Comments of		nut avallable	U	TIOL available	U
Comments of	Comments	200		20	
	Comments	no		no	



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