Flight test report

Certification number

Date of flight test

Place of test

PG 076.2007 29/03/2007 Villeneuve



ManufacturerWindtechAddressFrancisco Rodríguez, 733201 GIJON - Asturias
Spain, PO Box 269 33280RepresentiveNoneType of gliderCombat SC 25Trimmernot available

Classification D

Test Pilot Claude Thurnheer Harness Gin Genie III M Total weight in flight 95 kg Alain Zoller Sol - Slider L 115 kg

		Min weight	Max weight
1. Inflation/Ta			
	Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising
	Special take off technique required	No	A No
2. Landing			
	Special landing technique required	No	A No
3. Speed in st		N	No.
	Trim speed more than 30 km/h Speed range using the controls larger than 10 km/h		A Yes
	Minimum speed		
4. Control mo	•	Less than 25 km/m	Less than 25 km/h
4. control mo	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, 35 cm to 45 cm	D not available
	Max. weight in flight greater than 100 kg		
	Symmetric control pressure/travel	not available	0 Increasing, 35 cm to 50 cm
5. Pitch stabil	ity exiting accelerated flight		
	Dive forward angle on exit		A Dive forward less than 30°
	Collapse occurs	No	A No
6. Pitch stabil	ity operating controls during accelerated flight	A1-	
7 Doll state	Collapse occurs	No	A No
7. Roll stabilit	ty and damping Oscillations	Reducing	Reducing
8. Stability in	gentle spirals	i toudonly	
c. otasinty in	Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
9. Behaviour i	in a steeply banked turn		
	Sink rate after two turns	12 m/s to 14 m/s	A 12 m/s to 14 m/s
10. Symmetric	c front collapse		
	Entry	Rocking back less than 45°	A Rocking back less than 45°
	Recovery	Spontaneous in less than 3 s	A Spontaneous in less than 3 s
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	Dive foward 0°to 30°, Keeping course
	Cascade occurs	No	A No
	With accelerator		
	Entry		A Rocking back less than 45°
	Recovery	Spontaneous in less than 3 s	
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course	
11 Exiting do	Cascade occurs ep stall (parachutal stall)	No	A No
TT. Exiting de	Deep stall achieved	Yes	Yes
	Recovery		Spontaneous in less than 3 s
	Dive forward angle on exit	•	A Dive forward 30°to 60°
	Change of course		A Changing course less than 45°
	Cascade occurs		A No
12. High angle	e of attack recovery		
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Cascade occurs	No	No
13. Recovery	from a developed full stall		
	Dive forward angle on exit		Dive forward 30°to 60°
	Collapse	•	A No collapse
	Cascade occurs (other than collapse)		A No
	Rocking back		A Less than 45°
14. Asymmetr	Line tension	Most line tight	A Most line tight
14. Asymmetr	Vith 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 15° to 45°
	Re-inflation behaviour	· · · · · · · · · · · · · · · · · · ·	A Spontaneous re-inflation
	Total change of course		Less than 360°
	Collapse on the opposite side occurs		A No
	Twist occurs	No	
	Cascade occurs		A No
	With 75% collapse-Maximum dive forward or roll angle		
	Change of course until re-inflation	90° to 180°, Dive or roll angle 15° to 45°	Less than 90°, Dive or roll angle 45° to 60°
	Re-inflation behaviour		A Spontaneous re-inflation
	Total change of course	Less than 360°	Less than 360°
			A No
	Collapse on the opposite side occurs	No	
	Collapse on the opposite side occurs Twist occurs	No	A No
	Collapse on the opposite side occurs Twist occurs Cascade occurs	No	
	Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward or	No	A No A No
	Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward or Change of course until re-inflation	No No <i>roll angle</i> Less than 90°, Dive or roll angle 15° to 45°	No No Less than 90°, Dive or roll angle 15° to 45°
	Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward or Change of course until re-inflation Re-inflation behaviour	No No <i>roll angle</i> Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation	No No Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation
	Collapse on the opposite side occurs Twist occurs Cascade occurs With 50% collapse and accelerator-Maximum dive forward or Change of course until re-inflation	No	No No Less than 90°, Dive or roll angle 15° to 45°

	Twist occurs		No	А
	Cascade occurs	No A	No	А
	With 75% collapse and accelerator-Maximum dive forward o	r roll angle		
	Change of course until re-inflation	90° to 180°, Dive or roll angle 45° to 60°	Less than 90°, Dive or roll angle 45° to 60°	С
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation	А
	Total change of course	Less than 360° A	Less than 360°	Α
	Collapse on the opposite side occurs	No A	No	А
	Twist occurs	No A	No	Α
	Cascade occurs	No A	No	А
15. Directiona	I control with a maintained asymmetric collapse			
	Able to keep course	Yes	Yes	А
	180° turn away from the collapsed side possible in 10 s	Yes	Yes	А
	Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel		А
16. Trim spee	d spin tendency	· · · · · · · · · · · · · · · · · · ·	,	
	Spin occurs	No A	No	А
17. Low speed	d spin tendency			
	Spin occurs	No A	No	А
18. Recovery	from a developed spin			
,	Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°	А
	Cascade occurs	No A		A
19. B-line stal		,		~
To. D mile star	Change of course before release	Change of course less than 45°	Change of course less than 45°	А
	Behaviour before release	Remains stable with straight span		Â
	Recovery	Spontaneous in less than 3 s	8 1	A
	Dive forward angle on exit	Dive forward 0° to 30°		A
	Cascade occurs	No A		A
20. Big ears	Cascade occurs	NO P		~
ZU. DIY ears	Entry procedure	Dedicated controls	Dedicated controls	А
		Stable flight		A
	Behaviour during big ears		5	В
	Recovery	Recovery through pilot action in less than a	, , ,	в
	Directory and a set of a set it	further 3 s	further 3 s	
24 Discours in	Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°	А
Z1. Big ears in	n accelerated flight	Dedicated controls	Dedicated controls	
	Entry procedure	Dedicated controls		A
	Behaviour during big ears	Stable flight A		A
	Recovery	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
	Behaviour immediately after releasing the accelerator while	Stable flight A	Stable flight	А
22. Behaviour	exiting a steep spiral			
	Tendency to return to straight flight	Spontaneous exit A		А
	Turn angle to recover normal flight	Less than 720°, spontaneous recovery		А
	Sink rate when evaluating spiral stability [m/s]	17 m/s	16 m/s	
23. Alternative	e means of directional control			
	180° turn achievable in 20 s	Yes		А
	Stall or spin occurs	No A	No	А
24. Any other	flight procedure and/or configuration described in the us			
	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
Comments of	test pilot			
	Comments	no	no	



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