Flight test report

Manufacturer Airwave Address Gewerbepark 6

Gewerbepark 6 6142 Mieders Austria

Representive None
Type of glider Alpine S
Trimmer not available

 Certification number
 PG 110.2007

 Date of flight test
 01/05/2007

 Place of test
 Villeneuve



Classification B

 Test Pilot Harness
 Phillippe Dupont Sky - Reverse
 Claude Thurnheer Sky Axel II M

 Total weight in flight
 60 kg
 85 kg

		Min weight	Max weight
1. Inflation/Ta			
	Rising behaviour Special take off technique required	Smooth, easy and constant rising A No A	Smooth, easy and constant rising A No A
2. Landing			
2 Cmaadimad	Special landing technique required	No A	No A
3. Speed in st	Trim speed more than 30 km/h	Yes A	Yes A
	Speed range using the controls larger than 10 km/h	Yes A	Yes A
	Minimum speed	Less than 25 km/h	Less than 25 km/h A
4. Control mo			
	Max. weight in flight up to 80 kg Symmetric control pressure/travel	Increasing, Greater than 55 cm A	not available (
	Max. weight in flight 80 kg to 100 kg	increasing, Greater than 33 cm	Tiot available
	Symmetric control pressure/travel	not available (Increasing, Greater than 60 cm A
	Max. weight in flight greater than 100 kg		
5 Ditch stabi	Symmetric control pressure/travel	not available (not available (
J. FILCII SLADI	Dive forward angle on exit	Dive forward less than 30° A	Dive forward less than 30° A
	Collapse occurs	No A	No A
6. Pitch stabi	lity operating controls during accelerated flight		
7 Dall - (- l. '''	Collapse occurs	No A	No A
r. Koli stabili	ty and damping Oscillations	Reducing A	Reducing A
8. Stability in	gentle spirals		
	Tendency to return to straight flight	Spontaneous exit A	Spontaneous exit A
9. Behaviour	in a steeply banked turn		
10 Symmetri	Sink rate after two turns c front collapse	12 m/s to 14 m/s	More than 14 m/s B
io. Symmetri	Entry	Rocking back less than 45° A	Rocking back less than 45° A
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A	Dive foward 0°to 30°, Keeping course A
	Cascade occurs	No A	No A
	With accelerator Entry	Rocking back less than 45° A	Rocking back less than 45° A
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Dive forward angle on exit	Dive foward 0°to 30°, Keeping course A	Dive foward 0°to 30°, Keeping course A
	Cascade occurs	No A	No A
11. Exiting de	ep stall (parachutal stall) Deep stall achieved	Yes A	Yes A
	Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Dive forward angle on exit	Dive forward 0°to 30°	Dive forward 0°to 30° A
	Change of course	Changing course less than 45° A	Changing course less than 45° A
12 High angl	Cascade occurs e of attack recovery	No A	No A
12. High angi	Recovery	not available (not available (
	Cascade occurs		not available (
13. Recovery	from a developed full stall	B: (100 000	B: (100 000
	Dive forward angle on exit Collapse	Dive forward 0°to 30° A No collapse A	Dive forward 0°to 30° A No collapse A
	Cascade occurs (other than collapse)	No A	No A
	Rocking back	Less than 45° A	Less than 45° A
	Line tension	Most line tight A	Most line tight A
14. Asymmet	ric collapse 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° A	Less than 90°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation A
	Total change of course	Less than 360° A	Less than 360° A
	Collapse on the opposite side occurs	No A	No A
	Twist occurs Cascade occurs	No A	No A
	With 75% collapse-Maximum dive forward or roll angle	A	A
	Change of course until re-inflation	90° to 180°, Dive or roll angle 0° to 15°	Less than 90°, Dive or roll angle 15° to 45° A
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation A
	Total change of course	Less than 360° A	Less than 360° A
	Collapse on the opposite side occurs Twist occurs	No A	No A
	Cascade occurs	No A	No A
	With 50% collapse and accelerator-Maximum dive forward or		·
	Change of course until re-inflation	Less than 90°, Dive or roll angle 0° to 15° A	Less than 90°, Dive or roll angle 0° to 15° A
	Re-inflation behaviour	Spontaneous re-inflation A	Spontaneous re-inflation A
	Total change of course Collapse on the opposite side occurs	Less than 360° A No A	Less than 360° A
	Collapse of the opposite side occurs	NO A	TINO A

Cascade occurs With 75% collapse and accelerator-Maximum dive forward or Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Control with a maintained asymmetric collapse	No roll angle 90° to 180°, Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No No	A A A	No Less than 90°, Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°	A
Change of course until re-inflation Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Lascade occurs Lascade occurs Control with a maintained asymmetric collapse	90° to 180°, Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No	A A	Spontaneous re-inflation	
Re-inflation behaviour Total change of course Collapse on the opposite side occurs Wist occurs Cascade occurs control with a maintained asymmetric collapse	Spontaneous re-inflation Less than 360° No No	A A	Spontaneous re-inflation	
otal change of course Collapse on the opposite side occurs wist occurs Cascade occurs control with a maintained asymmetric collapse	Spontaneous re-inflation Less than 360° No No	Α		Λ
Collapse on the opposite side occurs wist occurs Cascade occurs control with a maintained asymmetric collapse	No No		L 0000	Α
Collapse on the opposite side occurs wist occurs Cascade occurs control with a maintained asymmetric collapse	No	^	Less than 360°	Α
wist occurs Cascade occurs control with a maintained asymmetric collapse		A	No	Α
Cascade occurs control with a maintained asymmetric collapse			No	Α
control with a maintained asymmetric collapse		Α	No	Α
•		, ,		
Able to keep course	Yes	Α	Yes	Α
	Yes	Α	Yes	Α
				A
	Word than 60 % of the symmetric control travel	-/\	More than 60 % of the symmetric control travel	- / \
•	No	Δ	No	Α
	110		110	^
	No	Δ	No	Α
	110		110	^
	Stone eninning in less than 90°	Δ	Stone eninning in less than 90°	Α
				A
Jascade occurs	NO	А	INU	A
Change of course before release	not available	0	not available	0
				0
		-		0
		-		0
Jascade occurs	not available	U	not available	U
	De Parte de catala		Dedicated controls	
				A
	· · · · · · · · · · · · · · · · · · ·			A
			The state of the s	A
	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
	De Parte de catala		Dedicated controls	
				Α
				Α
	•			Α
				Α
	Stable flight	Α	Stable flight	Α
	•		•	Α
		Α		Α
	14 m/s		19 m/s	
	V		·	
				Α
		Α	No	Α
				0
		0		C
	not available	0	not available	(
•				
Comments	Not possible to make B-Stall -		Impossible with B-stall	
	80° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin spin tendency Spin tendency Spin occurs om a developed spin Spin rotation angle after release Cascade occurs Change of course before release Schaviour before release Schaviour before release Schaviour during big ears Sc	Amount of control range between turn and stall or spin spin tendency spin tendency spin tendency spin occurs No No More than 50 % of the symmetric control travel spin occurs No More developed spin spin rotation angle after release Stops spinning in less than 90° No	Amount of control range between turn and stall or spin spin tendency spin tendency spin occurs No Aspin rotation angle after release Stops spinning in less than 90° ASpin rotation angle after release No Aspin rotation angle on exit No Aspin rotation and rotat	Amount of control range between turn and stall or spin spin tendency spin tendency spin tendency spin tendency spin tendency spin occurs No No A No No No No A No No No No No A No



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