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Route du Pré-au-Comte 8 🔺 CH-1844 Villeneuve 🔺 +41 (0)21 965 65 65

Test laboratory for paragliders, paraglider harnesses and paraglider reserve parachutes



Flight test report: EN 926-2:2013+A1:2021* & NfL 2-565-20

Manufacturer Skywalk GmbH & Co. KG		Certification number	F	PG_2161.2023								
Address Windeckstr. 4 83250 Marquartstein Germany		Flight test		18.02.2021								
Glider model	X-Alps 5 AV 23 95+	Classification)								
Serial number	XA13S	Representative	Ν	lone								
Trimmer	no	Place of test	V	'illeneuve								
Folding lines used	yes	1 1000 01 1001	•	monouvo								
Test pilot		Claude Thurnheer	Δ	lain Zoller								
Harness		Supair - Altiplume M		Advance - Success 4 L								
		·										
Harness to risers distance (cm) Distance between risers (cm) Total weight in flight (kg)		43 44 75		43 44 95								
							1. Inflation/Take-off		С			
							Rising behaviour		Overshoots, shall be slowed down to avoid a front collapse	С	Overshoots, shall be slowed down to avoid a front collapse	C
Special take off technique	required	No	Α	No	F							
2. Landing		Α										
Special landing technique	required	No	Α	No	,							
3. Speed in straight fligh		В										
Trim speed more than 30	km/h	Yes	Α	Yes	A							
Speed range using the controls larger than 10 km/h		Yes	Α	Yes	A							
Minimum speed		25 km/h to 30 km/h	В	25 km/h to 30 km/h	E							
4. Control movement		Α										
Max. weight in flight up	_											
Symmetric control pressu	re / travel	Increasing / greater than 55 cm	Α	not available	(
Max. weight in flight 80												
Symmetric control pressu		not available	0	Increasing / greater than 60 cm	A							
Max. weight in flight gre	ater than 100 kg											
Symmetric control pressu		not available	0	not available	(
5. Pitch stability exiting	accelerated flight	Α										
Dive forward angle on exi	t	Dive forward less than 30°	Α	Dive forward less than 30°	1							
Collapse occurs		No	Α	No	1							
6. Pitch stability operation flight	ng controls during accelerated	Α										
Collapse occurs		No	Α	No	F							
7. Roll stability and dam	ping	Α										
Oscillations		Reducing	Α	Reducing	A							
8. Stability in gentle spir	rals	Α										
Tendency to return to stra		Spontaneous exit	Α	Spontaneous exit	A							
	ılly developed spiral dive	С										
Initial response of glider (No immediate reaction	В	Immediate reduction of rate of turn	A							
Tendency to return to stra		Spontaneous exit (g force decreasing, rate of turn decreasing)	Α	Spontaneous exit (g force decreasing, rate of turn decreasing)	F							
Turn angle to recover nor	mal flight	1080° to 1440°, spontaneous recovery	С	Less than 720°, spontaneous recovery	F							
10. Symmetric front coll	ansa	D										
10. Symmetric from con	apse	5										
Approximately 30 % cho	•											

Develor forward angle on exit Change of course	Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Section Sect	•	·		•	
Poting pines used	Dive forward angle on exit offange of course	, 0			
Entry Recovery Recovery Spontaneous in 45° of 15 Spontaneous in less than 45° A Recovery Spontaneous in 3 s to 5 s B Spontaneous in less than 3 s A Dive forward or 10 30° / Receiping course A No	Cascade occurs	No	Α	No	Α
Entity	Folding lines used	Yes	D	Yes	D
Recovery Spontaneous in 3 s to 5 s B Spontaneous in less than 3 s A Dive forward of 10 a00 1 / Keeping course A Dive forward 0 10 to 300 1 / Keeping course A Dive forward 30 1 to 600 1 s Dive forward 30 1 to 6	At least 50% chord				
Dive forward angle on exit / Change of course	Entry	Rocking back less than 45°	Α	Rocking back greater than 45°	С
Course	Recovery	Spontaneous in 3 s to 5 s	В	Spontaneous in less than 3 s	Α
Folding lines used With accolerator Eithy Rocking back greater than 45" of Rocking back greater than 45" of Recovery Recovery Rocking back greater than 45" of Rocking back greater than 45" of Recovery Rocking back greater than 45" of Spontaneous in less than 3 a A No A No A No Recovery Rocking lines used Recovery Rec	Dive forward angle on exit / Change of course	, 0	Α		В
Potentia	Cascade occurs	No	Α	No	Α
Recovery Rocking back greater than 45" C Rocking back greater than 45" S Recovery Spontaneous in 1 s to 0 s S Spontaneous in less than 3 s A Rocking back greater than 45" C Rocking back greater than 45" A Rocking back greater than 45" S Ropital ancous in less than 3 s A Rocking back greater than 45" Rocking back greater than	Folding lines used	Yes	D	Yes	D
Recovery Dive forward angle on exit / Change of course Recovery Cascade occurs No No A No A No Dive forward 30" to 60" / Recepting course No A No A No Cascade occurs No Cascade occurs No No A Recovery Spontaneous in less than 3 s Recovery Recovery Spontaneous in less than 3 s Recovery Spontaneous in less than 3 s Recovery Recovery Spontaneous in less than 45" A Recovery Spontaneous in less than 3 s Recovery Spontaneous in less than 45" A Recovery Spontaneous in less than 3 s A Recovery Spontaneous re-inflation Re-inflation behaviour Re-inflation behav	With accelerator				
Dive forward angle on exit / Change of course	Entry	Rocking back greater than 45°	С	Rocking back greater than 45°	С
Cascade occurs	Recovery	Spontaneous in 3 s to 5 s	В	•	Α
Folding lines used Yes	Dive forward angle on exit / Change of course		В		В
Deep stall achieved Yes	Cascade occurs	No			
Deep stall achieved	<u> </u>		D	Yes	D
Recovery Dive forward angle on exit Dive forward or 'to 30" A Dive forward 0' to 30" A No A No A No A No A Dive forward 0' to 30" A No A Dive forward 0' to 30" A Dive forward 0' to 40" A No collapse 0' to 90" C Dive forward 0' to 90" D Dive forwa	The state of the s				
Dive forward angle on exit Dive forward 0" to 30" A Change of course Changing course less than 45" A Changing course less than 45"	Deep stall achieved	Yes	Α		Α
Change of course Changing course less than 45" A Changing course less than 45" A Cascade occurs No A No No A	Recovery		Α	•	Α
Cascade occurs	Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
12. High angle of attack recovery	Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Recovery Spontaneous in less than 3 s	Cascade occurs	No	Α	No	Α
Cascade occurs No No No No No No No N	12. High angle of attack recovery	A			
Dive forward angle on exit Dive forward 60° to 90° C Dive forward 60° to 90° C Collapse No collapse A No collapse A No collapse A No collapse A Rocking back Less than 45° A Greater than 45° C Line tension Most lines tight A Less than 45° C Most lines tight A Most lines tight A Most lines tight A Less than 45° C Most lines tight A Less than 45° A Most lines tight A Most lines tig	Recovery	Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward angle on exit Collapse No collapse No collapse No collapse A No collapse A No collapse A No collapse A Rocking back Less than 45° A Greater than 45° CLine tension Most lines tight A No (or only a small number of collapsed cells with a spontaneous reinflation) A No (or only a small number of collapsed cells with a spontaneous reinflation A Spontaneous re-inflation A Most lines tight A No (or only a small number of collapsed cells with a spontaneous r			Α	No	Α
Collapse No collapse A No collapse A No collapse A Cascade occurs (other than collapses) No A Cascade occurs (other than collapses) Most lines tight A Spontaneous re-inflation behaviour A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No A N					
Cascade occurs (other than collapses) Rocking back Less than 45° A Greater than 45° C Line tension Most lines tight A Greater than 45° A Most lines tight A Greater than 45° A No Most lines tight A Less than 360° A Most lines tight A Greater than 45° A Most lines tight A Greater than 45° A Most lines tight A Most lin			С		С
Rocking back Less than 45° A Greater than 45° C Line tension Most lines tight A Most lines tight A Most lines tight A A Most lines tight A A A Most lines tight A A A A A A A A A		No collapse	Α	No collapse	Α
Line tension Most lines tight A Most lines tight A			Α		
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle of course until re-inflation behaviour Spontaneous re-inflation Spontaneous	Rocking back		Α		
Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle of langle Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45° A Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A No (or only a small number of collapsed cells with a spontaneous re-inflation) A Spontaneous re-inflation A Spontaneous re		•	Α	Most lines tight	Α
Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° 15°	•	D			
roll angle Re-inflation behaviour Roll angle of course Less than 360° Roll change of course Less than 360° Roll change of course Less than 360° Roll change of course until re-inflation / Maximum dive forward or roll angle Roll change of course Roll asymmetric collapse with fully activated accelerator Roll angle Roll asymmetric collapse with fully activated accelerator Roll angle Roll change of course until re-inflation / Maximum dive forward or roll angle Roll change of course until re-inflation / Maximum dive forward or roll angle Roll change of course until re-inflation / Maximum dive forward or roll angle Roll change of course until re-inflation / Maximum dive forward or roll angle Roll change of course until re-inflation / Maximum dive forward or roll angle Roll change of course until re-inflation / Maximum dive forward or roll angle Roll change of course until re-inflation / Maximum dive forward or roll change re-inflation / Roll change re-inflation A Roll change re-inflation A Roll change re-inflation A Roll chan	·				
Total change of course Less than 360° A Less than 360° A Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) A No (or only a small number of collapsed cells with a spontaneous reinflation) A Twist occurs No A No A Cascade occurs No A No A Folding lines used Yes D Yes D Large asymmetric collapse Uses than 360° D Yes D Change of course until re-inflation / Maximum dive forward or roll angle roll angle 90° to 180° / Dive or roll angle 45° to 60° C 90° to 180° / Dive or roll angle 60° to 90° D 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 (or only a small number of collapsed cells with a spontaneous re-inflation) A Yes, no turn reversal A Twist occurs No A No A No A Cascade occurs No A No A	roll angle	15° to 45°		15° to 45°	
Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No A No (or only a small number of collapsed cells with a spontaneous reinflation) No A No		•		·	
Twist occurs No No A No A No A Polaring Inlease asymmetric collapsed following Ingel Polaring Ingel Ingel Polaring Ingel Polaring Ingel Polaring Ingel Polaring Ingel Polaring Ingel Polaring Ingel Ingel Ingel Ingel Polaring Ingel	-	Less than 360°	Α		Α
Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle roll angle entil to the opposite side occurs Twist occurs Cascade occurs No No No No No No No No No N	Collapse on the opposite side occurs	collapsed cells with a spontaneous	Α	collapsed cells with a spontaneous	Α
Folding lines used Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle follangle roll angle Re-inflation behaviour Spontaneous re-inflation Less than 360° Collapse on the opposite side occurs Collapse on the opposite side occurs Twist occurs No (or only a small number of collapsed cells with a spontaneous re-inflation) Twist occurs No Cascade occurs No Cascade occurs No Folding lines used Yes No No No A No A Cascade occurs No Folding lines used Change of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle The stantage of course until re-inflation / Maximum dive forward or roll angle					
Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle ang					
Change of course until re-inflation / Maximum dive forward or roll angle roll angle angle Re-inflation behaviour Re-inflation behaviour Total change of course Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No N	-	Yes	D	Yes	D
roll angle 45° to 60° 60° to 90° Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A Spontaneous re-inflation A Less than 360° A Less than 360° A Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No A No					
Total change of course Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No No A No A Yes, no turn reversal C Cascade occurs No A No A No A Folding lines used Yes D Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Total change of course a than 360° A Less than 360° A Ves, no turn reversal C A No A No A No A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°	roll angle	45° to 60°	С	60° to 90°	D
Collapse on the opposite side occurs No (or only a small number of collapsed cells with a spontaneous reinflation) Twist occurs No No No A No A No A No A Cascade occurs No No No A Folding lines used Yes Yes D Yes D Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle The state of the opposite side occurs No No A No A No Yes D Yes D Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°		•	Α	·	Α
Collapsed cells with a spontaneous reinflation) Twist occurs No No A No A No A No A Folding lines used Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°	Total change of course	Less than 360°	Α	Less than 360°	
Cascade occurs No Yes D Yes D Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°	Collapse on the opposite side occurs	collapsed cells with a spontaneous	Α	Yes, no turn reversal	С
Folding lines used Yes D Yes D Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle 15° to 45° Less than 90° / Dive or roll angle 15° to 45° A Less than 90° / Dive or roll angle 15° to 45°	Twist occurs	No	Α	No	Α
Small asymmetric collapse with fully activated accelerator Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A 15° to 45°	Cascade occurs	No	Α	No	Α
Change of course until re-inflation / Maximum dive forward or roll angle Less than 90° / Dive or roll angle A Less than 90° / Dive or roll angle A 15° to 45° Less than 90° / Dive or roll angle A 15° to 45°	Folding lines used	Yes	D	Yes	D
roll angle 15° to 45° 15° to 45°	Small asymmetric collapse with fully activated accelerator				
Re-inflation behaviour Spontaneous re-inflation A Spontaneous re-inflation A			Α		Α
	Re-inflation behaviour	Spontaneous re-inflation	Α	Spontaneous re-inflation	Α

Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
Large asymmetric collapse with fully activated accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	Less than 90° / Dive or roll angle 45° to 60°	С
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Spontaneous re-inflation	Α
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α	No (or only a small number of collapsed cells with a spontaneous reinflation)	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
Folding lines used	Yes	D	Yes	D
15. Directional control with a maintained asymmetric collapse	Α			
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 speed spin tendency	Α			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	D			
Spin occurs	Yes	D	No	Α
18. Recovery from a developed spin	D			
Spin rotation angle after release	Stops spinning in 180° to 360°	D	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	0			
Change of course before release	not available	0	not available	0
Behaviour before release	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
	not available	0	not available	0
Cascade occurs				
Cascade occurs 20. Big ears	A			
		Α	Dedicated controls	Α
20. Big ears	A	A A	Dedicated controls Stable flight	A A
20. Big ears Entry procedure	A Standard technique			
20. Big ears Entry procedure Behaviour during big ears	A Standard technique Stable flight	Α	Stable flight	Α
20. Big ears Entry procedure Behaviour during big ears Recovery	A Standard technique Stable flight Spontaneous in less than 3 s	A A	Stable flight Spontaneous in less than 3 s	A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A	Stable flight Spontaneous in less than 3 s	A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B	A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique	A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s	A A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight	A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in	A A A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s	A A A A B
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight	A A A B
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes	A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes	A A A B
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight	A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight	A A A B A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No 0	A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes No	A A A B A A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No 0 not available	A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes No not available	A A A B A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described Procedure suitable for novice pilots	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No 0 not available not available	A A A A A A O O O	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes No not available not available	A A A B A A A O O O
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described Procedure suitable for novice pilots Cascade occurs	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No 0 not available	A A A A A A A A	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes No not available	A A A B A A A A
20. Big ears Entry procedure Behaviour during big ears Recovery Dive forward angle on exit 21. Big ears in accelerated flight Entry procedure Behaviour during big ears Recovery Dive forward angle on exit Behaviour immediately after releasing the accelerator while maintaining big ears 22. Alternative means of directional control 180° turn achievable in 20 s Stall or spin occurs 23. Any other flight procedure and/or configuration described in the user's manual Procedure works as described Procedure suitable for novice pilots	A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° B Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Stable flight A Yes No 0 not available not available	A A A A A A O O O	Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° Dedicated controls Stable flight Recovery through pilot action in less than a further 3 s Dive forward 0° to 30° Stable flight Yes No not available not available	A A A B A A A O O O