AIR TURQUOISE SA certified by

Flight test report: EN

ISO 9001
BUREAU VERITAS

Manufacturer	Axis Paragliding	Certification number	PG_0566.2012
Address	Nove Sady 39 602 00 Brno Czech Republic	Date of flight test	07. 11. 2012
Representative	None	Place of test	Villeneuve
Glider model	Mercury Sport S	Classification	D
Trimmer	no		

Test pilot	Thurnheer Claude		Zoller Alain	
-	Niviuk Gliders - Hamak 2 M		Sup'Air - Altiplume M	
Total weight in flight (kg)			102	
1. Inflation/Take-off	C		102	
Rising behaviour	Overshoots, shall be slowed	С	Overshoots, shall be slowed down	С
	down to avoid a front collapse		to avoid a front collapse	
Special take off technique required	No	Α	No	Α
2. Landing	Α			
Special landing technique required	No	Α	No	Α
3. Speed in straight flight	В			
Trim speed more than 30 km/h	Yes	Α	Yes	Α
Speed range using the controls larger than 10 km/h	Yes	Α	Yes	Α
Minimum speed	25 km/h to 30 km/h	В	25 km/h to 30 km/h	В
4. Control movement	D			
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 / 35 cm to 45 cm	D	not available	0
Max. weight in flight greater than 100 kg				
Symmetric control pressure / travel	not available	0	Increasing / 35 cm to 50 cm	D
5. Pitch stability exiting accelerated flight	Α			
Dive forward angle on exit	Dive forward less than 30°	Α	Dive forward less than 30°	Α
Collapse occurs	No	Α	No	Α
6. Pitch stability operating controls during accelerated flight	Α			
Collapse occurs	No	Α	No	Α
7. Roll stability and damping	Α			
Oscillations	Reducing	Α	Reducing	Α
8. Stability in gentle spirals	Α			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
9. Behaviour in a steeply banked turn	В			
Sink rate after two turns	More than 14 m/s	В	More than 14 m/s	В
10. Symmetric front collapse	D			
Entry	Rocking back less than 45°	Α	Rocking back less than 45°	Α
Recovery	Recovery through pilot action in less than a further 3 s	D	Spontaneous in 3 s to 5 s	В
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 0° to 30° / Keeping course	Α
Cascade occurs	No	Α	No	Α
With accelerator				
Entry	Rocking back less than 45°	Α	Rocking back greater than 45°	С

Recovery	Recovery through pilot action in	D	Recovery through pilot action	D
Divertenced and an arity Observe of accura	less than a further 3 s	ь	between a further 3 s to 5 s	_
Dive forward angle on exit / Change of course	Dive forward 30° to 60° / Keeping course	В	Dive forward 30° to 60° / Keeping course	В
Cascade occurs	No	Α	No	Α
11. Exiting deep stall (parachutal stall)	Α			
Deep stall achieved	Yes	Α	Yes	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
Change of course	Changing course less than 45°	Α	Changing course less than 45°	Α
Cascade occurs	No	Α	No	Α
12. High angle of attack recovery	A			
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	В			
Dive forward angle on exit	Dive forward 0° to 30°	Α	Dive forward 30° to 60°	В
Collapse	No collapse	Α	No collapse	Α
Cascade occurs (other than collapses)	No	Α	No	Α
Rocking back	Less than 45°	Α	Less than 45°	Α
Line tension	Most lines tight	Α	Most lines tight	Α
14. Asymmetric collapse	D			
With 50% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	Less than 90° / Dive or roll angle 15° to 45°	Α	Less than 90° / Dive or roll angle 0° to 15°	Α
Re-inflation behaviour	Spontaneous re-inflation	Α	Inflates in less than 3 s from start of pilot action	С
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No	Α	No	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
With 75% collapse				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 45° to 60°	С	90° to 180° / Dive or roll angle 45° to 60°	С
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	Yes, no turn reversal	С	Yes, no turn reversal	С
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
With 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	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	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	Α	No	Α
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 60° to 90°	С	180° to 360° / Dive or roll angle 60° to 90°	D
Re-inflation behaviour	Inflates in less than 3 s from start of pilot action	С	Inflates in 3 s to 5 s from start of pilot action	D
Total change of course	Less than 360°	Α	Less than 360°	Α
Collapse on the opposite side occurs	No	Α	Yes, no turn reversal	С
Twist occurs	No	Α	No	Α
Cascade occurs	No	Α	No	Α
15. Directional control with a maintained asymmetric collapse	С			
Able to keep course	Yes	Α	Yes	Α
180° turn away from the collapsed side possible in 10 s	Yes	Α	Yes	Α

More than 50 % of the symmetric control travel	Α	25 % to 50 % of the symmetric control travel	С
Α			
No	Α	No	Α
D			
Yes	D	Yes	D
С			
Stops spinning in 90° to 180°	С	Stops spinning in 90° to 180°	С
No	Α	No	Α
0			
not available	0	not available	0
not available	0	not available	0
not available	0	not available	0
not available	0	not available	0
not available	0	not available	0
С			
Dedicated controls	Α	Standard technique	Α
Unstable flight	С	Unstable flight	С
Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
Dive forward 0° to 30°	Α	Dive forward 0° to 30°	Α
С			
Dedicated controls	Α	Standard technique	Α
Unstable flight	С	Unstable flight	С
Spontaneous in less than 3 s	Α	Spontaneous in less than 3 s	Α
not available	0	Dive forward 0° to 30°	Α
Stable flight	Α	Unstable flight	С
D			
Turn remains constant	D	Turn remains constant	D
With pilot action	D	With pilot action	D
26		25	
Α			
Yes	Α	Yes	Α
No	Α	No	Α
0			
not available	0	not available	0
not available	0	not available	0
not available	0	not available	0
Dieser Gleitschirm erfüllt die Mindestanforderungen von EN/LTF D. Nach Auskunft des Herstellers und bestätigt durch unsere Testflüge richtet sich dieser Schirm ausschließlich an sehr erfahrene Wettkampf-Piloten (PWC-Niveau) und ersetzt nicht das Klasse D Standard-Gleitschirmmodell des selben Herstellers.		This glider meets the minimum requirements of EN/LTF class D. According to the manufacturer and confirmed by our own testing this glider addresses highly experienced comp-pilots (PWC level) exclusively and is no replacement for the standard D-class-glider of the same manufacturer.	
	A No D Yes C Stops spinning in 90° to 180° No O not available not available not available not available flight Spontaneous in less than 3 s Dive forward 0° to 30° C Dedicated controls Unstable flight Spontaneous in less than 3 s Dive forward 0° to 30° C Dedicated controls Unstable flight Spontaneous in less than 3 s not available Stable flight D Turn remains constant With pilot action 26 A Yes No O not available not available not available not available not available stable flight D Turn remains constant With pilot action 26 A Yes No O Stable flight Dieser Gleitschirm erfüllt die Mindestanforderungen von EN/LTF D. Nach Auskunft des Herstellers und bestätigt durch unsere Testflüge richtet sich dieser Schirm ausschließlich an sehr erfahrene Wettkampf- Piloten (PWC-Niveau) und ersetzt nicht das Klasse D Standard-Gleitschirmmodell des	No A D Yes D C Stops spinning in 90° to 180° C No A O not available 0 C Dedicated controls A Unstable flight C Spontaneous in less than 3 s Dive forward 0° to 30° A C Dedicated controls A Unstable flight C Spontaneous in less than 3 s Dive forward 0° to 30° A C Dedicated controls A Unstable flight C Spontaneous in less than 3 s not available 0 Turn remains constant D With pilot action D 26 A Yes A No A O Dieser Gleitschirm erfüllt die Mindestanforderungen von EN/LTF D. Nach Auskunft des Herstellers und bestätigt durch unsere Testflüge richtet sich dieser Schirm ausschließlich an sehr erfahrene Wettkampf-Piloten (PWC-Niveau) und ersetzt nicht das Klasse D Standard-Gleitschirmmodell des	symmetric control travel A No D Yes C Stops spinning in 90° to 180° No O not available C C Dedicated controls Unstable flight Spontaneous in less than 3 s Dive forward 0° to 30° C Dedicated controls Unstable flight C Dedicated controls A Standard technique Unstable flight Spontaneous in less than 3 s Dive forward 0° to 30° C Dedicated controls Unstable flight C Unstable flight D Turn remains constant With pilot action 26 A Yes No A Yes No O Dive forward 0° to 30° Turn remains constant With pilot action 26 A Yes No A Yes No O Turn remains constant With pilot action 26 This glider meets the minimum requirements of EN/LTF class D. According to the manufacturer and confirmed by our own testing this glider addresses highly experienced comp-pilots (PWC level) exclusively and is no replacement for the standard D-class-glider of the same manufacturer.