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Flight test report: EN



Manufacturer Apco Aviation Ltd. Certification number PG_0236.2009 Address 7, Chalamish St., Industrial Date of flight test 23.03.2009

park

38900 Caesarea

Israel

Representative None Place of test Villeneuve

Glider model Vista HP M Classification С

Trimmer yes: closed

> Test pilot Thurnheer Claude Zoller Alain

Harness Sup Air - Evo XC2 M Gin Gliders - Gingo 2 L

1. Inflation/Take-off Rising behaviour Special take off technique required No 2. Landing Special landing technique required No	asy and constant rising A Smooth, easy and constant rising A No	A A
Special take off technique required No 2. Landing A	A No	Α
2. Landing A		
	A No	
Special landing technique required No	A No	
1 0 1 1		Α
3. Speed in straight flight A		
Trim speed more than 30 km/h Yes	A Yes	Α
Speed range using the controls larger than 10 km/h Yes	A Yes	Α
Minimum speed Less than 2	25 km/h A Less than 25 km/h	Α
4. Control movement C		
Max. weight in flight up to 80 kg		
Symmetric control pressure / travel not availab	e 0 not available	0
Max. weight in flight 80 kg to 100 kg		
Symmetric control pressure / travel Increasing	greater than 60 cm A not available	0
Max. weight in flight greater than 100 kg		
Symmetric control pressure / travel not availab	e 0 Increasing / 50 cm to 65 cm	С
5. Pitch stability exiting accelerated flight 0		
Dive forward angle on exit not available	e 0 not available	0
Collapse occurs not availab	e 0 not available	0
6. Pitch stability operating controls during accelerated 0 flight		
Collapse occurs not availab	e 0 not available	0
7. Roll stability and damping A		
Oscillations Reducing	A Reducing	Α
8. Stability in gentle spirals A		
Tendency to return to straight flight Spontaneo	us exit A Spontaneous exit	Α
9. Behaviour in a steeply banked turn B		
Sink rate after two turns More than	14 m/s B More than 14 m/s	В
10. Symmetric front collapse A		
Entry Rocking ba	ck less than 45° A Rocking back less than 45°	Α
Recovery Spontaneo	us in less than 3 s A Spontaneous in less than 3 s	Α
Dive forward angle on exit / Change of course Dive forward course	rd 0° to 30° / Keeping A Dive forward 0° to 30° / Keeping course	Α
Cascade occurs No	A No	Α
With accelerator		
Entry not availab	e 0 not available	0
Recovery not available	e 0 not available	0

Dive forward angle on exit / Change of course	not available	0	not available	0
Cascade occurs	not available	0	not available	0
11. Exiting deep stall (parachutal stall)	A			
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	В			
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 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				
Change of course until re-inflation / Maximum dive forward or roll angle	90° to 180° / Dive or roll angle 15° to 45°	В	90° to 180° / Dive or roll angle 15° to 45°	В
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 50% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
With 75% collapse and accelerator				
Change of course until re-inflation / Maximum dive forward or roll angle	not available	0	not available	0
Re-inflation behaviour	not available	0	not available	0
Total change of course	not available	0	not available	0
Collapse on the opposite side occurs	not available	0	not available	0
Twist occurs	not available	0	not available	0
Cascade occurs	not available	0	not available	0
15. Directional control with a maintained asymmetric collapse	A			
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	A			
Spin occurs	No	Α	No	Α
17. Low speed spin tendency	A			
Spin occurs	No	Α	No	Α
18. Recovery from a developed spin	A			
Spin rotation angle after release	Stops spinning in less than 90°	Α	Stops spinning in less than 90°	Α
Cascade occurs	No	Α	No	Α
19. B-line stall	A			
Change of course before release	Changing course less than 45°	Α	Changing course less than 45°	Α
Behaviour before release	Remains stable with straight span	Α	Remains stable with straight span	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
Cascade occurs	No	Α	No	Α
20. Big ears	Α			
Entry procedure	Dedicated controls	Α	Dedicated controls	Α
Behaviour during big ears	Stable flight	Α	Stable flight	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
21. Big ears in accelerated flight	0			
Entry procedure	not available	0	not available	0
Behaviour during big ears	not available	0	not available	0
Recovery	not available	0	not available	0
Dive forward angle on exit	not available	0	not available	0
Behaviour immediately after releasing the accelerator while maintaining big ears	not available	0	not available	0
22. Behaviour exiting a steep spiral	Α			
Tendency to return to straight flight	Spontaneous exit	Α	Spontaneous exit	Α
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	Α	Less than 720°, spontaneous recovery	Α
Sink rate when evaluating spiral stability [m/s]	16		22	
23. Alternative means of directional control	A			
180° turn achievable in 20 s	Yes	Α	Yes	Α
Stall or spin occurs	No	Α	No	Α
24. Any other flight procedure and/or configuration described in the user's manual	Α			
Procedure works as described	Yes	Α	Yes	Α
Procedure suitable for novice pilots	Yes	Α	Yes	Α
Cascade occurs	No	Α	No	Α
25. Comments of test pilot				
Comments				