


Manufacturer		Type testing No.	EAPR-GS-7508/12
		Date of testing	16.11.2011
Model	Ion 2 M	Location	Schruns



EAPR e.V - Marktstr. 11 - D-87730 Bad Grönenbach - Germany

	Minimum take off weight		Maximum take off weight	
Testpilot	Hannes Tschofen		Anselm Rauh	
Harness	EAPR Equipment		EAPR Test Equipment	
Pilot's take off weight	90 kg		110 kg	

Classification	B
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Test-criteria	Minimum take off weight	Evaluation	Maximum take off weight	Evaluation			
1. Inflation / take-off - 4.1.1							
Rising behavior	Smooth, easy and constant rising	A	Smooth, easy and constant rising	A			
Special take off technique required	No	A	No	A			
2. Landing - 4.1.2							
Special landing technique required	No	A	No	A			
3. Speeds in straight flight - 4.1.3							
Trim speed more than 30km/h	Yes	A	Yes	A			
Speed range using the controls larger than 10km/h	Yes	A	Yes	A			
Minimum speed	Less than 25 km/h	A	Less than 25 km/h	A			
4. Control movement - 4.1.4							
Max. weight in flight up to 80kg		-		-			
Max. weight in flight 80 to 100kg	Increasing > 60cm	A	Increasing > 60cm	A			
Max. weight in flight greater than 100kg		-		-			
5. Pitch stability exiting accelerated flight - 4.1.5							
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 stability operating controls during accelerated flight - 4.1.6							
Collapse occurs	No	A	No	A			
7. Roll stability and damping - 4.1.7							
Oscillations	Reducing	A	Reducing	A			
8. Stability in gentle spirals - 4.1.8							
Tendency to return to straight flight	Spontaneous exit	A	Spontaneous exit	A			
9. Behaviour in a steeply banked turn - 4.1.9							
Sink rate after two turns	Up to 12m/s	A	More than 14m/s	B			
10. Symmetric front collapse - 4.1.10							
Entry	trim speed	Rocking back less than 45°	A	Rocking back less than 45°	A		
Recovery		Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A		
Dive forward angle on exit		0° - 30°	Keeping course	A	0° - 30°	Keeping course	A
Cascade occurs		No	A	No	A		
Entry	accelerated	Rocking back less than 45°	A	Rocking back less than 45°	A		
Recovery		Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A		
Dive forward angle on exit		0° - 30°	Keeping course	A	30° - 60°	Keeping course	B
Cascade occurs		No	A	No	A		

11. Exiting deep stall (parachutal stall) - 4.1.11											
Deep stall achieved	Yes			Yes							
Recovery	Spontaneous in less than 3 sec	A		Spontaneous in less than 3 sec	A						
Dive forward angle on exit	0° - 30°	A		0° - 30°	A						
Change of course	Changing course less than 45°	A		Changing course less than 45°	A						
Cascade occurs	No	A		No	A						
12. High angle of attack recovery - 4.1.12											
Recovery	Spontaneous in less than 3 sec	A		Spontaneous in less than 3 sec	A						
Cascade occurs	No	A		No	A						
13. Recovery from a developed full stall - 4.1.13											
Dive forward angle on exit	0° - 30°	A		0° - 30°	A						
Collapse	No collapse	A		No collapse	A						
Cascade occurs (other than collapse)	No	A		No	A						
Rocking backward	Less than 45°	A		Less than 45°	A						
Line tension	Most lines tight	A		Most lines tight	A						
14. Asymmetric collapse (trim speed) - 4.1.14											
Change of course until re-inflation	trim speed, max 50% collapse	< 90°	Dive or roll angle	15° - 45°	A	< 90°	Dive or roll angle	15° - 45°	A		
Re-inflation behavior		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		No				A	No				A
Cascade occurs	No				A	No				A	
Change of course until re-inflation	trim speed, max 75% collapse	< 90°	Dive or roll angle	15° - 45°	A	90° - 180°	Dive or roll angle	15° - 45°	B		
Re-inflation behavior		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		No				A	No				A
Cascade occurs	No				A	No				A	
Change of course until re-inflation	accelerated, max 50% collapse	< 90°	Dive or roll angle	15° - 45°	A	< 90°	Dive or roll angle	15° - 45°	A		
Re-inflation behavior		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		No				A	No				A
Cascade occurs	No				A	No				A	
Change of course until re-inflation	accelerated, max 75% collapse	90° - 180°	Dive or roll angle	15° - 45°	B	90° - 180°	Dive or roll angle	15° - 45°	B		
Re-inflation behavior		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		No				A	No				A
Cascade occurs	No				A	No				A	
15. Directional control with a maintained asymmetric collapse - 4.1.15											
Able to keep course straight	Yes	A		Yes	A						
180° turn away from the collapsed side possible in 10 sec	Yes	A		Yes	A						
Amount of control range between turn and stall or spin	More than 50% of the symmetric control travel	A		More than 50% of the symmetric control travel	A						
16. Trim speed spin tendency - 4.1.16											
Spin occurs	No	A		No	A						
17. Low speed spin tendency - 4.1.17											
Spin occurs	No	A		No	A						
18. Recovery from a developed spin - 4.1.18											
Spin rotation angle after release	Stops spinning in less than 90°	A		Stops spinning in less than 90°	A						
Cascade occurs	No	A		No	A						
19. B-line-stall - 4.1.19											
Change of course before release	Changing course less than 45°	A		Changing course less than 45°	A						
Behaviour before release	Remains stable with straight span	A		Remains stable with straight span	A						
Recovery	Spontaneous in less than 3 sec	A		Spontaneous in less than 3 sec	A						
Dive forward angle on exit	0° - 30°	A		0° - 30°	A						
Cascade occurs	No	A		No	A						
20. Big ears - 4.1.20											
Entry procedure	Special device required	A		Special device required	A						
Behaviour during big ears	Stable flight	A		Stable flight	A						
Recovery	Spontaneous in less than 3 sec	A		Spontaneous in less than 3 sec	A						
Dive forward angle on exit	0° - 30°	A		0° bis 30°	A						
21. Big Ears in accelerated flight - 4.1.21											
Entry procedure	Special device required	A		Special device required	A						
Behaviour during big ears	Stable flight	A		Stable flight	A						
Recovery	Spontaneous in less than 3 sec	A		Spontaneous in less than 3 sec	A						
Dive forward angle on exit	0° - 30°	A		0° bis 30°	A						
Behaviour immediately after releasing the accelerator while maintaining big ears	Stable flight	A		Stable flight	A						

22. Behaviour exiting a steep spiral - 4.1.22				
Tendency to return to straight flight	Spontaneous exit	A	Spontaneous exit	A
Turn angle to recover normal flight	Less than 720°, spontaneous recovery	A	Less than 720°, spontaneous recovery	A
23. Alternative means of directional control - 4.1.23				
180° turn achievable in 20 sec	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A
24. Any other flight procedure and/or configuration described in the user's manual - 4.1.24				
Procedure works as described		NA		NA
Procedure suitable for novice pilots		NA		NA
Cascade occurs		NA		NA
25. Remarks of testpilot:				
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