


Manufacturer		Type testing No.	EAPR-GS-7699/13
		Location	Stubaital
Model	Mistral 7 S	Bad Grönenbach:	08.03.13
Comment			



Rev. 2.0 - 25.01.2013

EAPR GmbH - Marktstr. 11 - D-87730 Bad Grönenbach - Germany

	Minimum take off weight		Maximum take off weight	
Date of testing	05.03.13		07.03.13	
Testpilot	Mike Küng		Hannes Tschofen	
Harness	EAPR-Testequipment		Academy Test Equipment	
Pilot's take off weight	75 kg		95 kg	

Classification	<b>B</b>
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Test-criteria	Minimum take off weight	Evaluation	Maximum take off weight	Evaluation
<b>1. Inflation / take-off - 4.1.1</b>				
Rising behavior	Smooth, easy and constant rising	A	Smooth, easy and constant rising	A
Special take off technique required	No	A	No	A
<b>2. Landing - 4.1.2</b>				
Special landing technique required	No	A	No	A
<b>3. Speeds in straight flight - 4.1.3</b>				
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
<b>4. Control movement - 4.1.4</b>				
Max. weight in flight up to 80kg	Increasing > 55cm	A		-
Max. weight in flight 80 to 100kg		-	Increasing > 60cm	A
Max. weight in flight greater than 100kg		-		-
<b>5. Pitch stability exiting accelerated flight - 4.1.5</b>				
Dive forward angle on exit	Dive forward less than 30°	A	Dive forward less than 30°	A
Collapse occurs	No	A	No	A
<b>6. Pitch stability operating controls during accelerated flight - 4.1.6</b>				
Collapse occurs	No	A	No	A
<b>7. Roll stability and damping - 4.1.7</b>				
Oscillations	Reducing	A	Reducing	A
<b>8. Stability in gentle spirals - 4.1.8</b>				
Tendency to return to straight flight	Spontaneous exit	A	Spontaneous exit	A
<b>9. Behaviour in a steeply banked turn - 4.1.9</b>				
Sink rate after two turns	12m/s to 14m/s	A	More than 14m/s	B
<b>10. Symmetric front collapse - 4.1.10</b>				
Entry	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	Rocking back less than 45°	A	Rocking back less than 45°	A
Recovery	Spontaneous in less than 3 sec	A	Spontaneous in 3 to 5 sec	B
Dive forward angle on exit	30° - 60°   Keeping course	B	30° - 60°   Keeping course	B
Cascade occurs	No	A	No	A
<b>11. Exiting deep stall (parachutal stall) - 4.1.11</b>				

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					
<b>12. High angle of attack recovery - 4.1.12</b>									
Recovery	Spontaneous in less than 3 sec	A	Spontaneous in less than 3 sec	A					
Cascade occurs	No	A	No	A					
<b>13. Recovery from a developed full stall - 4.1.13</b>									
Dive forward angle on exit	30° - 60°	B	30° - 60°	B					
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					
<b>14. Asymmetric collapse (trim speed) - 4.1.14</b>									
Change of course until re-inflation	trim speed, max 50% collapse	< 90°	Dive or roll angle	0° - 15°	A	< 90°	Dive or roll angle	0° - 15°	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° - 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		
Change of course until re-inflation	accelerated, max 50% 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		
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		
<b>15. Directional control with a maintained asymmetric collapse - 4.1.15</b>									
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					
<b>16. Trim speed spin tendency - 4.1.16</b>									
Spin occurs	No	A	No	A					
<b>17. Low speed spin tendency - 4.1.17</b>									
Spin occurs	No	A	No	A					
<b>18. Recovery from a developed spin - 4.1.18</b>									
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					
<b>19. B-line-stall - 4.1.19</b>									
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	30° - 60°	A					
Cascade occurs	No	A	No	A					
<b>20. Big ears - 4.1.20</b>									
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					
<b>21. Big Ears in accelerated flight - 4.1.21</b>									
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					
<b>22. Behaviour exiting a steep spiral - 4.1.22</b>									

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
<b>23. Alternative means of directional control - 4.1.23</b>				
180° turn achievable in 20 sec	Yes	A	Yes	A
Stall or spin occurs	No	A	No	A
<b>24. Any other flight procedure and/or configuration described in the user's manual - 4.1.24</b>				
Procedure works as described		NA		NA
Procedure suitable for novice pilots		NA		NA
Cascade occurs		NA		NA
<b>25. Remarks of testpilot:</b>				
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