| Manufacturer | $\sim$   | Type testing No. | EAPR-GS-7680/13       |  |
|--------------|----------|------------------|-----------------------|--|
|              |          | Location         | Altaussee / Lenggries |  |
| Model        | SusiQ 18 | Bad Grönenbach:  | 04.03.13              | LBA Musterprüfstelle<br>Gleitschirm - Motorschirm - Fallschirn |

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

|                         | Minimum take off wei    | ight  | Maximum take off weight |   |  |
|-------------------------|-------------------------|-------|-------------------------|---|--|
| Date of testing         | 25.12.12                |       | 14.11.12                |   |  |
| Testpilot               | Sepp Bauer              |       | Hannes Tschofen         | 6 |  |
| Harness                 | Academy Light Equipment |       | Academy Test Equipment  |   |  |
| Pilot's take off weight | 60 kg                   | Class | 90 kg                   |   |  |

Classification

В



| st-criteria  |                            | 41268                          | Evaluation | 41227                            | Evaluation |
|--|----------------------------|--------------------------------|------------|----------------------------------|------------|
| 1. Inflation / take-off - 4.1.1                      |                            |                                |            |                                  |            |
| Rising behavior                                      | ig behavior                |                                | А          | Smooth, easy and constant rising | А          |
| 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                            | А          | Yes                              | А          |
| Speed range using the controls larger than 10km/     | h                          | Yes                            | А          | Yes                              | А          |
| 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              | А          | Increasing > 60cm                | А          |
| Max. weight in flight greater than 100kg             |                            |                                | -          |                                  | -          |
| 5. Pitch stability exiting accelerated flight - 4.1. | .5                         |                                |            |                                  | •          |
| Dive forward angle on exit                           | Dive forward angle on exit |                                | А          | Dive forward less than 30°       | А          |
| Collapse occurs                                      |                            | No                             | А          | No                               | А          |
| 6. Pitch stability operating controls during acce    | elerated fl                | ight - 4.1.6                   |            |                                  |            |
| Collapse occurs No                                   |                            | No                             | А          | 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               | А          | Spontaneous exit                 | А          |
| 9. Behaviour in a steeply banked turn - 4.1.9        |                            |                                |            |                                  |            |
| Sink rate after two turns                            |                            | More than 14m/s                | В          | More than 14m/s                  | В          |
| 10. Symmetric front collapse - 4.1.10                |                            | •<br>•                         | •          |                                  |            |
| Entry  |                            | Rocking back less than 45°     | А          | Rocking back less than 45°       | А          |
| Recovery   | trim speed                 | Spontaneous in less than 3 sec | А          | Spontaneous in less than 3 sec   | А          |
| Dive forward angle on exit                           | .Ë                         | 0° - 30° Keeping course        | А          | 0° - 30° Keeping course          | А          |
| Cascade occurs                                       | tı                         | No                             | А          | No                               | А          |
| Entry  | q                          | Rocking back less than 45°     | A          | Rocking back less than 45°       | A          |
| Recovery   | accelerated                | Spontaneous in less than 3 sec | А          | Spontaneous in less than 3 sec   | А          |
| Dive forward angle on exit                           | cce                        | 0° - 30° Keeping course        | А          | 0° - 30° Keeping course          | А          |
| Cascade occurs                                       | D                          | No                             | А          | No                               | A          |
| 11. Exiting deep stall (parachutal stall) - 4.1.11   |                            |                                |            |                                  |            |

| Deep stall achieved  |   | Yes  |                    |   |                                | Yes                                       |                    |           |        |
|--|---|--|--------------------|---|--------------------------------|---|--------------------|-----------|--------|
| Recovery   | Spontaneous in less than 3 sec                        |  | А                  | Spontaneous in less than 3 sec          |                                |   | А                  |           |        |
| Recovery<br>Dive forward angle on exit   |   | Spontaneous in less than 3 sec<br>0° - 30° |                    |   | A                              | 0° - 30°                                  |                    |           | A      |
| Change of course   |   | Changing course                            | less than 45°      |   | A                              | 0° - 30°<br>Changing course less than 45° |                    |           | A      |
| Cascade occurs   |   | No   |                    |   | А                              | No  |                    |           | A      |
| 12. High angle of attack recovery - 4.1.12   |   | 1  |                    |   |                                |   |                    |           |        |
| Recovery   |   | Spontaneous in le                          | ess than 3 sec     |   | A                              | Spontaneous in                            | less than 3 sec    |           | A      |
| Cascade occurs   |   | No   |                    |   | А                              | No  |                    |           | А      |
| 13. Recovery from a developed full stall - 4.1.1                                       | 3   | 30° - 60°                                  |                    |   |                                | 000 000                                   |                    |           | _      |
| Dive forward angle on exit<br>Collapse   |   | No collapse                                |                    |   | B<br>A                         | 30° - 60°<br>No collapse                  |                    |           | B<br>A |
| Cascade occurs (other than collapse)   |   | No   |                    |   | Α                              | No  |                    |           | Α      |
| Rocking backward<br>Line tension   |   | Less than 45°<br>Most lines tight          |                    |   | A                              | Less than 45°<br>Most lines tight         |                    |           | A      |
| 14. Asymmetric collapse (trim speed) - 4.1.14  |   | Woot inteo tight                           |                    |   |                                | West lines light                          |                    |           |        |
| Change of course until re-inflation  |   | < 90°                                      | Dive or roll angle | 0° - 15°                                | А                              | < 90°                                     | Dive or roll angle | 0° - 15°  | А      |
|  | trim speed,<br>max 50% collapse                       |  | -                  | 0 10                                    | ,,                             | 100                                       |                    | 0 10      | ,,     |
| Re-inflation behavior  | peed  | Spontaneous re-i                           | nflation           |   | A                              | Spontaneous re-                           | inflation          |           | A      |
| Total change of course   | im sl<br>50%  | Less than 360°                             |                    |   | A<br>A                         | Less than 360°                            |                    |           | A      |
| Collapse on the opposite side occurs Twist occurs                                      | tr  | No   | No<br>No           |   |                                | No<br>No                                  |                    |           | A      |
| Cascade occurs   | _   | No   |                    |   | A<br>A                         | No  | -                  |           | A      |
| Change of course until re-inflation  | Φ   | 90° - 180°                                 | Dive or roll angle | 15° - 45°                               | В                              | 90° - 180°                                | Dive or roll angle | 15° - 45° | В      |
| Re-inflation behavior  | trim speed,<br>max 75% collapse                       | Spontaneous re-i                           | nflation           |   | ^                              | Spontaneous re-                           | inflation          |           | ^      |
|  | trim speed,<br>< 75% colla                            | · ·  | mauon              |   | A                              |   | milauUli           |           | A      |
| Total change of course<br>Collapse on the opposite side occurs                         | trim<br>c 75%   | Less than 360°<br>No                       |                    |   | A                              | Less than 360°<br>No                      |                    |           | A<br>A |
| Twist occurs   | ma  | No   |                    |   | А                              | No  |                    |           | А      |
| Cascade occurs   |   | No   |                    |   | А                              | No  |                    |           | A      |
| Change of course until re-inflation  | se  | 90° - 180°                                 | Dive or roll angle | 15° - 45°                               | В                              | < 90°                                     | Dive or roll angle | 15° - 45° | А      |
| Re-inflation behavior  | ated,<br>collap                                       | Spontaneous re-inflation                   |                    |   | А                              | Spontaneous re-inflation                  |                    |           | А      |
| Total change of course   | xelera<br>0% o  | Less than 360°                             |                    |   | A                              | Less than 360°                            |                    |           | A      |
| Collapse on the opposite side occurs   | accelerated,<br>max 50% collapse                      | No   |                    |   | A                              | No  |                    |           | A      |
| Twist occurs Cascade occurs  | E   | No<br>No                                   |                    |   | A                              | No<br>No                                  |                    |           | A<br>A |
| Change of course until re-inflation  | se  | 90° - 180°                                 | Dive or roll angle | 15° - 45°                               | В                              | 90° - 180°                                | Dive or roll angle | 15° - 45° | В      |
| Re-inflation behavior  | accelerated,<br>max 75% collapse                      | Spontaneous re-inflation                   |                    |   | А                              | Spontaneous re-                           | inflation          |           | А      |
| Total change of course   | celer<br>'5%  | Less than 360°                             |                    |   | A                              | Less than 360°                            |                    |           | A      |
| Collapse on the opposite side occurs Twist occurs                                      | ac<br>lax 7   | No<br>No                                   |                    |   | A                              | No<br>No                                  |                    |           | A<br>A |
| Cascade occurs   | u   | E No<br>No                                 |                    | A                                       | No                             |   |                    | A         |        |
| 15. Directional control with a maintained asymr  | netric col  |  |                    |   |                                |   |                    |           |        |
| 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                                      | or spin More than 50% of the symmetric control travel |  | А                  | More than 50% of                        | of the symmetric c             | ontrol travel                             | А                  |           |        |
| 16. Trim speed spin tendency - 4.1.16  |   |  |                    |   |                                |   |                    |           |        |
| Spin occurs  |   | No   |                    |   | A                              | No  |                    |           | A      |
| 17. Low speed spin tendency - 4.1.17<br>Spin occurs                                    |   | No   |                    |   | Α                              | No  |                    |           | A      |
| 18. Recovery from a developed spin - 4.1.18  |   | 1  |                    |   | ~                              |   |                    |           | ~      |
| Spin rotation angle after release  |   | Stops spinning in                          | less than 00°      |   | А                              | Stops spinning i                          | n less than 00°    |           | А      |
| Cascade occurs   |   | Stops spinning in less than 90°<br>No      |                    |   |                                | No  | 000 (nan 30        |           |        |
| 19. B-line-stall - 4.1.19  |   |  |                    |   | A                              |   |                    |           | A      |
| Change of course before release  |   | Changing course                            | less than 45°      |   | A                              | Changing course                           | e 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   | Dive forward angle on exit                            |  | 0° - 30°           |   |                                | 0° - 30°                                  |                    |           | A      |
| Cascade occurs   |   | No   |                    |   | A                              | No  |                    |           | A      |
| 20. Big ears - 4.1.20  |   |  |                    |   |                                |   |                    |           |        |
| Entry procedure  |   | Standard techniq                           | ue                 |   | A                              | Special device re                         | equired            |           | A      |
| Behaviour during big ears  |   | Stable flight                              |                    |   | A                              | Stable flight                             |                    |           | A      |
| Recovery S   |   | Spontaneous in less than 3 sec             |                    | A                                       | Spontaneous in less than 3 sec |   |                    | А         |        |
| Dive forward angle on exit   |   | 0° - 30°                                   |                    |   | A                              | 0° bis 30°                                |                    |           | A      |
| 21 Big Ears in accelerated flight 4.1.21   |   |  |                    |   |                                |   |                    |           |        |
| 21. Big Ears in accelerated flight - 4.1.21  |   |  |                    | Entry procedure Special device required |                                | Special device re                         | auired             |           | A      |
| Entry procedure  |   |  | quired             |   | A                              |   |                    |           |        |
|  |   | Special device real                        | quired             |   | A                              | Stable flight                             |                    |           | Α      |
| Entry procedure  |   |  |                    |   |                                |   | ·                  |           | A<br>A |
| Entry procedure<br>Behaviour during big ears<br>Recovery<br>Dive forward angle on exit |   | Stable flight                              |                    |   | A                              | Stable flight                             | ·                  |           |        |
| Entry procedure<br>Behaviour during big ears<br>Recovery                               | tor while   | Stable flight<br>Spontaneous in le         |                    |   | A<br>A                         | Stable flight<br>Spontaneous in           | ·                  |           | А      |

| 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 |   | А               |
| 23. Alternative means of directional control - | 4.1.23   |  |   |                 |
| 180° turn achievable in 20 sec                 | Yes  | А                                      | Yes   | А               |
| Stall or spin occurs                           | No   | А                                      | No  | А               |
| 24. Any other flight procedure and/or configu  | ration described in the user's manual - 4.1.24 |  |   |                 |
| Procedure works as descibed                    |  | NA                                     |   | NA              |
| Procedure suitable for novice pilots           |  | NA                                     |   | NA              |
| Cascade occurs                                 |  | NA                                     |   | NA              |
| 25. Remarks of testpilot:                      |  |  |   |                 |
|  |  |  |   |                 |
|  |  |  |   |                 |
|  |  |  |   |                 |
|  |  |  |   |                 |
|  |  |  |   |                 |
| Copyright Ralf Antz 2010                       | This Fligh                                     | nt Test Report                         | was generated automatically and is valid wi | thout signature |