| Manufacturer |         | Type testing No. | EAPR-GS-7635/12 |  |
|--------------|---------|------------------|-----------------|--|
|              |         | Location         | Kössen          |  |
| Model        | SuSi XS | Bad Grönenbach:  | 19.08.12        |  |



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

|                         | Minimum take off we    | eight | Maximum take off weight |       |  |  |
|-------------------------|------------------------|-------|-------------------------|-------|--|--|
| Date of testing         | 18.07.12               |       | 26.07.12                |       |  |  |
| Testpilot               | Bauer Josef            | 678)  | Tschofen Johannes       |       |  |  |
| Harness                 | Academy Test Equipment |       | Academy Test Equipment  | N. C. |  |  |
| Pilot's take off weight | 70 kg                  | بالو  | 100 kg                  |       |  |  |

| Classification | Α |
|----------------|---|
|----------------|---|



| Test-criteria                                       |             | 41108                            | Evaluation 41116 |                                  | Evaluation |
|---|-------------|----------------------------------|------------------|----------------------------------|------------|
| 1. Inflation / take-off - 4.1.1                     |             |                                  |                  |                                  |            |
| Rising behavior                                     |             | Smooth, easy and constant rising | А                | Smooth, easy and constant rising | А          |
| Special take off technique required                 |             | No                               | Α                | No                               | А          |
| 2. Landing - 4.1.2                                  |             |                                  |                  |                                  |            |
| Special landing technique required                  |             | No                               | Α                | No                               | Α          |
| 3. Speeds in straight flight - 4.1.3                |             |                                  |                  |                                  |            |
| Trim speed more than 30km/h                         |             | Yes                              | Α                | Yes                              | Α          |
| Speed range using the controls larger than 10km/    | h           | Yes                              | Α                | Yes                              | Α          |
| Minimum speed                                       |             | Less than 25 km/h                | Α                | Less than 25 km/h                | Α          |
| 4. Control movement - 4.1.4                         |             |                                  |                  |                                  |            |
| Max. weight in flight up to 80kg                    |             |                                  | -                |                                  | -          |
| Max. weight in flight 80 to 100kg                   |             | Increasing > 60cm                | Α                |                                  | -          |
| Max. weight in flight greater than 100kg            |             |                                  | -                | Increasing >65 cm                | А          |
| 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°       | Α          |
| Collapse occurs                                     |             | No                               | Α                | No                               | Α          |
| 6. Pitch stability operating controls during acc    | elerated fl | ight - 4.1.6                     |                  |                                  |            |
| Collapse occurs                                     |             | No                               | Α                | No                               | Α          |
| 7. Roll stability and damping - 4.1.7               |             |                                  |                  |                                  |            |
| Oscillations  |             | Reducing                         | Α                | Reducing                         | Α          |
| 8. Stability in gentle spirals - 4.1.8              |             |                                  |                  |                                  |            |
| Tendency to return to straight flight               |             | Spontaneous exit                 | Α                | Spontaneous exit                 | Α          |
| 9. Behaviour in a steeply banked turn - 4.1.9       |             | •                                | ·                | •                                | ÷          |
| Sink rate after two turns                           |             | 12m/s to 14m/s                   | Α                | 12m/s to 14m/s                   | Α          |
| 10. Symmetric front collapse - 4.1.10               |             |                                  |                  |                                  |            |
| Entry   | 7           | Rocking back less than 45°       | Α                | Rocking back less than 45°       | Α          |
| Recovery  | trim speed  | Spontaneous in less than 3 sec   | Α                | Spontaneous in less than 3 sec   | Α          |
| Dive forward angle on exit                          | Ë           | 0° - 30° Keeping course          | Α                | 0° - 30° Keeping course          | Α          |
| Cascade occurs                                      | ţ           | No                               | Α                | No                               | Α          |
| Entry   | D.          | Rocking back less than 45°       | Α                | Rocking back less than 45°       | Α          |
| Recovery  | accelerated | Spontaneous in less than 3 sec   | Α                | Spontaneous in less than 3 sec   | Α          |
| Dive forward angle on exit                          | CCe         | 0° - 30° Keeping course          | Α                | 0° - 30° Keeping course          | Α          |
| Cascade occurs                                      |             | No                               | Α                | No                               | Α          |
| 11. Exiting deep stall (parachutal stall) - 4.1.11  |             |                                  |                  |                                  |            |
|   |             |                                  |                  |                                  |            |

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| Deep stall achieved   |                                     | Yes   |                    |                                |   | Yes                               |                    |               |       |
|---|-------------------------------------|---|--------------------|--------------------------------|---|-----------------------------------|--------------------|---------------|-------|
|   |                                     | Yes Spontaneous in less than 3 sec            |                    | Α                              |   |                                   |                    | Λ             |       |
| Recovery  |                                     | · ·   |                    |                                | Spontaneous in less than 3 sec          |                                   |                    | A             |       |
| Dive forward angle on exit  Change of course                        |                                     | 0° - 30° Changing course less than 45°        |                    | A                              | 0° - 30°  Changing course less than 45° |                                   |                    | A             |       |
| Cascade occurs  |                                     | No No   | 3 1003 111411 40   |                                | A                                       | No No                             | 3 1000 111411 40   |               | A     |
| 12. High angle of attack recovery - 4.1.12                          |                                     |   |                    |                                |   |                                   |                    |               |       |
| Recovery  |                                     | Spontaneous in I                              | less than 3 sec    |                                | Α                                       | Spontaneous in                    | less than 3 sec    |               | Α     |
| Cascade occurs  |                                     | No  |                    |                                | A                                       | No                                |                    |               | A     |
| 13. Recovery from a developed full stall - 4.1.1                    | 3                                   | •   |                    |                                |   |                                   |                    |               |       |
| Dive forward angle on exit  |                                     | 0° - 30°                                      |                    |                                | Α                                       | 0° - 30°                          |                    |               | Α     |
| Collapse  Cascade occurs (other than collapse)                      |                                     | No collapse<br>No                             |                    |                                | A                                       | No collapse<br>No                 |                    |               | A     |
| Rocking backward  |                                     | Less than 45°                                 |                    |                                | A                                       | Less than 45°                     |                    |               | A     |
| Line tension  |                                     | Most lines tight                              |                    |                                | Α                                       | Most lines tight                  |                    |               | Α     |
| 14. Asymmetric collapse (trim speed) - 4.1.14                       | ı                                   |   |                    |                                |   |                                   |                    |               |       |
| Change of course until re-inflation                                 | esdt                                | < 90°   | Dive or roll angle | 0° - 15°                       | Α                                       | < 90°                             | Dive or roll angle | 0° - 15°      | Α     |
| Re-inflation behavior   | trim speed,<br>max 50% collapse     | Spontaneous re-inflation                      |                    |                                | Α                                       | Spontaneous re-                   | Α                  |               |       |
| Total change of course  | ds m                                | Less than 360°                                |                    |                                | Α                                       | Less than 360°                    |                    |               | Α     |
| Collapse on the opposite side occurs Twist occurs                   | ax £                                | No<br>No                                      |                    |                                | A                                       | No<br>No                          |                    |               | A     |
| Cascade occurs  |                                     | No  |                    |                                | A                                       | No                                |                    |               | A     |
| Change of course until re-inflation                                 | 0                                   | < 90°   | Dive or roll angle | 15° - 45°                      | Α                                       | < 90°                             | Dive or roll angle | 15° - 45°     | A     |
| Re-inflation behavior   | trim speed,<br>max 75% collapse     | Spontaneous re-                               | _                  | -                              | A                                       | Spontaneous re-                   | Ţ.                 |               | A     |
| Total change of course  | trim speed,<br>x 75% colla          | Less than 360°                                |                    |                                |   | Less than 360°                    |                    |               |       |
| Collapse on the opposite side occurs                                | trim<br>< 75%                       | No  |                    |                                | A                                       | No                                |                    |               | A     |
| Twist occurs  | ma +                                | No  |                    |                                | A                                       | No                                |                    |               | A     |
| Cascade occurs  |                                     | No  |                    |                                | A                                       | No                                |                    |               | A     |
| Change of course until re-inflation                                 | ő                                   | < 90°   | Dive or roll angle | 15° - 45°                      | Α                                       | < 90°                             | Dive or roll angle | 0° - 15°      | Α     |
| Re-inflation behavior   | accelerated,<br>max 50% collapse    | Spontaneous re-                               | inflation          |                                | Α                                       | Spontaneous re-                   | inflation          |               | Α     |
| Total change of course  | eler<br>%                           | Less than 360°                                |                    |                                | Α                                       | Less than 360°                    |                    |               | Α     |
| Collapse on the opposite side occurs                                | acc<br>ax 5                         | No  |                    |                                | Α                                       | No                                |                    |               | Α     |
| Twist occurs  Cascade occurs  | Ĕ                                   | No<br>No                                      |                    |                                | A                                       | No<br>No                          |                    |               | A     |
| Change of course until re-inflation                                 | O)                                  | < 90°   | Dive or roll angle | 15° - 45°                      | A                                       | < 90°                             | Dive or roll angle | 15° - 45°     | A     |
| Re-inflation behavior   | accelerated,<br>max 75% collapse    | Spontaneous re-                               | inflation          |                                | A                                       | Spontaneous re-                   | inflation          |               | A     |
| Total change of course  | accelerated,<br>x 75% collap        | Less than 360°                                |                    |                                | A                                       | Less than 360°                    |                    |               | A     |
| Collapse on the opposite side occurs                                | acce<br>x 75                        | No No   |                    |                                | A                                       | No No                             |                    |               | A     |
| Twist occurs  | ma                                  | No  |                    |                                | Α                                       | No                                |                    |               | Α     |
| Cascade occurs  15. Directional control with a maintained asym      | motrio col                          | No  |                    |                                | Α                                       | No                                |                    |               | Α     |
| Able to keep course straight  | inetiic co                          | Yes   |                    |                                | А                                       | Yes                               |                    |               | А     |
| 180° turn away from the collapsed side possible in                  | n 10 sec                            | Yes   |                    |                                | A                                       | Yes                               |                    |               | A     |
|   |                                     | More than 50% of the symmetric control travel |                    |                                |   |                                   |                    |               |       |
| Amount of control range between turn and stall or                   | r spin                              | More than 50% o                               | of the symmetric c | ontrol travel                  | А                                       | More than 50% o                   | of the symmetric o | ontrol travel | Α     |
| 16. Trim speed spin tendency - 4.1.16 Spin occurs                   |                                     | No  |                    |                                | Α                                       | No                                |                    |               | Α     |
| 17. Low speed spin tendency - 4.1.17                                |                                     |   |                    |                                | , ,,                                    |                                   |                    |               | , , , |
| Spin occurs   |                                     | No  |                    |                                | Α                                       | No                                |                    |               | Α     |
| 18. Recovery from a developed spin - 4.1.18                         |                                     |   |                    |                                |   |                                   |                    |               |       |
| Spin rotation angle after release                                   |                                     | Stops spinning in                             | n less than 90°    |                                | Α                                       | Stops spinning i                  | n less than 90°    |               | Α     |
| Cascade occurs  |                                     | No  |                    |                                | Α                                       | No                                |                    |               | Α     |
| 19. B-line-stall - 4.1.19   |                                     |   |                    |                                |   |                                   |                    |               |       |
| Change of course before release                                     | -                                   | Changing course                               | e less than 45°    |                                | Α                                       | Changing course                   | e 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 sec                |                    |                                | Α                                       | Spontaneous in less than 3 sec    |                    |               | А     |
| Dive forward angle on exit Cascade occurs                           | -                                   | 0° - 30°<br>No                                |                    |                                | A                                       | 0° - 30°<br>No                    |                    |               | A     |
| 20. Big ears - 4.1.20   |                                     | 1140  |                    |                                | А                                       | 140                               |                    |               | A     |
|   |                                     | Ctonderd to the                               | 7110               |                                |   | Coosiel de la                     | auirad             |               |       |
| Entry procedure   |                                     | Standard technic                              | lue                |                                | A                                       | Special device re                 | equired            |               | A     |
| Behaviour during big ears   |                                     | Stable flight                                 |                    |                                | A                                       | Stable flight                     |                    |               | A     |
| Recovery  |                                     | Spontaneous in less than 3 sec                |                    | Α                              | Spontaneous in less than 3 sec          |                                   |                    | Α             |       |
| Dive forward angle on exit  |                                     | 0° - 30°                                      |                    |                                | Α                                       | 0° bis 30°                        |                    |               | Α     |
| 21. Big Ears in accelerated flight - 4.1.21                         |                                     |   |                    |                                |   |                                   |                    |               |       |
| Entry procedure   |                                     | Standard technic                              | que                |                                | A Special device required               |                                   |                    |               | Α     |
| Behaviour during big ears   |                                     | Stable flight                                 |                    |                                | Α                                       | A Stable flight                   |                    |               | Α     |
| Recovery  | very Spontaneous in less than 3 sec |   | Α                  | Spontaneous in less than 3 sec |   |                                   | Α                  |               |       |
| Dive forward angle on exit 0° - 30°                                 |                                     |   | Α                  | 0° bis 30°                     |   |                                   | Α                  |               |       |
| Behaviour immediately after releasing the accelarator while         |                                     | Stable flight                                 |                    |                                | Α                                       | Stable flight                     |                    |               | Α     |
| maintaining big ears  22. Behaviour exiting a steep spiral - 4.1.22 |                                     |   |                    |                                |   |                                   |                    |               |       |
| 22. Deliation calling a steep spiral - 4.1.22                       |                                     |   |                    |                                |   |                                   |                    |               |       |

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| 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  |
| 23. Alternative means of directional control - 4.1.2 | 3   |                |  |    |
| 180° turn achievable in 20 sec                       | Yes                                       | А              | Yes  | Α  |
| Stall or spin occurs                                 | No  | Α              | No   | Α  |
| 24. Any other flight procedure and/or configuration  | n 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:                            |   |                |  |    |
|  |   |                |  |    |
|  |   |                |  |    |
|  |   |                |  |    |
|  |   |                |  |    |
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