



## Flight test report: EN 926-2:2013

| Manufacturer                                       | ADVANCE Thun AG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Certification number                               |   | PG_0977.2015                                                   |   |  |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---|----------------------------------------------------------------|---|--|
| Address                                            | Uttigenstrasse 87<br>3600 Thun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Date of flight test                                |   | 04. 11. 2015                                                   |   |  |
|                                                    | Switzerland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                    |   |                                                                |   |  |
| Glider model                                       | Pi 2 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Classification                                     |   | С                                                              |   |  |
| Serial number                                      | 64247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Representative                                     |   | Kari Einsenhut                                                 |   |  |
| Trimmer                                            | no                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Place of test                                      |   | Villeneuve                                                     |   |  |
| Test pilot                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Light pilot under Air<br>Turquoise supervision     |   | Thurnheer Claude                                               |   |  |
| Harness                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Flugsau - Lightsau                                 |   | Niviuk - Hamak M                                               |   |  |
| Harness to risers distance (cm)                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 41                                                 |   | 42                                                             |   |  |
| Distance between risers (cm)                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 40                                                 |   | 44                                                             |   |  |
| Total weight in fligh                              | ` '                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 50                                                 |   | 90                                                             |   |  |
| rotal worght in mg.                                | (9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                    |   |                                                                |   |  |
| 1. Inflation/Take-off                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A                                                  |   |                                                                |   |  |
| Rising behaviour                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Smooth, easy and constant rising                   | Α | Smooth, easy and constant rising                               | Α |  |
| Special take off technique                         | required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No                                                 | Α | No                                                             | Α |  |
| 2. Landing                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Α                                                  |   |                                                                |   |  |
| Special landing technique                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No                                                 | Α | No                                                             | Α |  |
| 3. Speed in straight fligh                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | В                                                  |   |                                                                |   |  |
| Trim speed more than 30 km/h                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                | A | Yes                                                            | Α |  |
| Speed range using the controls larger than 10 km/h |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Yes                                                | A | Yes                                                            | A |  |
| Minimum speed                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Less than 25 km/h                                  | Α | 25 km/h to 30 km/h                                             | В |  |
| 4. Control movement                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | С                                                  |   |                                                                |   |  |
| Max. weight in flight up                           | to 80 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                    |   |                                                                |   |  |
| Symmetric control pressure / travel                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Increasing / 40 cm to 55 cm                        | С | not available                                                  | 0 |  |
| Max. weight in flight 80                           | kg to 100 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                    |   |                                                                |   |  |
| Symmetric control pressure / travel                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | not available                                      | 0 | Increasing / 45 cm to 60 cm                                    | С |  |
| Max. weight in flight gre                          | ater than 100 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |   |                                                                |   |  |
| Symmetric control pressu                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | not available                                      | 0 | not available                                                  | 0 |  |
| 5. Pitch stability exiting                         | The state of the s | Α                                                  |   |                                                                |   |  |
| Dive forward angle on exi                          | t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Dive forward less than 30°                         | Α | Dive forward less than 30°                                     | Α |  |
| Collapse occurs                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No                                                 | Α | No                                                             | Α |  |
| flight                                             | ng controls during accelerated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Α                                                  |   |                                                                |   |  |
| Collapse occurs                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No                                                 | Α | No                                                             | Α |  |
| 7. Roll stability and dam                          | ping                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A<br>De ducine                                     |   | Dedicina                                                       | ^ |  |
| Oscillations                                       | 1-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Reducing                                           | Α | Reducing                                                       | Α |  |
| 8. Stability in gentle spin                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | A<br>Chantanagua avit                              | ٨ | Chantanagus avit                                               | ^ |  |
| Tendency to return to stra                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Spontaneous exit                                   | Α | Spontaneous exit                                               | Α |  |
| Initial response of glider (                       | ılly developed spiral dive<br>first 180°)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | A Immediate reduction of rate of turn              | Α | Immediate reduction of rate of turn                            | Α |  |
| Tendency to return to stra                         | ight flight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Spontaneous exit (g force decreasing, rate of turn | Α | Spontaneous exit (g force decreasing, rate of turn decreasing) | Α |  |
| Turn angle to recover nor                          | mal flight                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | decreasing)  Less than 720°, spontaneous recovery  | Α | Less than 720°, spontaneous recovery                           | Α |  |
|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ,                                                  |   |                                                                |   |  |

| Approximately 30 % chord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                        |                                       |                                                                                                                                                                                                                                                                                                                                           |                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rocking back less than 45°                                                                                                                                                                                                                                                                                                             | Α                                     | Rocking back less than 45°                                                                                                                                                                                                                                                                                                                | Α                     |
| Recovery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                           | Α                                     | Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                              | Α                     |
| Dive forward angle on exit Change of course                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Dive forward 0° to 30° Keeping course                                                                                                                                                                                                                                                                                                  | Α                                     | Dive forward 0° to 30° Keeping course                                                                                                                                                                                                                                                                                                     | Α                     |
| Cascade occurs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                     | Α                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
| Folding lines used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No                                                                                                                                                                                                                                                                                                                                     | Α                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                        |                                       |                                                                                                                                                                                                                                                                                                                                           |                       |
| At least 50% chord                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                        |                                       |                                                                                                                                                                                                                                                                                                                                           |                       |
| Entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rocking back less than 45°                                                                                                                                                                                                                                                                                                             | Α                                     | Rocking back less than 45°                                                                                                                                                                                                                                                                                                                | Α                     |
| Recovery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                           | Α                                     | Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                              | Α                     |
| Dive forward angle on exit / Change of course                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Dive forward 0° to 30° / Keeping course                                                                                                                                                                                                                                                                                                | Α                                     | Dive forward 0° to 30° / Keeping course                                                                                                                                                                                                                                                                                                   | Α                     |
| Cascade occurs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                     | Α                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
| Folding lines used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No                                                                                                                                                                                                                                                                                                                                     | Α                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
| With an along the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                        |                                       |                                                                                                                                                                                                                                                                                                                                           |                       |
| With accelerator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | D 1: 1 1 1 4 450                                                                                                                                                                                                                                                                                                                       |                                       | D 1: 1 11 11 45°                                                                                                                                                                                                                                                                                                                          |                       |
| Entry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Rocking back less than 45°                                                                                                                                                                                                                                                                                                             | A                                     | Rocking back less than 45°                                                                                                                                                                                                                                                                                                                | A                     |
| Recovery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                           | Α.                                    | Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                              | A                     |
| Dive forward angle on exit / Change of course                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Dive forward 0° to 30° / Keeping course                                                                                                                                                                                                                                                                                                | Α                                     | Dive forward 0° to 30° / Keeping course                                                                                                                                                                                                                                                                                                   | Α                     |
| Cascade occurs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                     | Α                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
| Folding lines used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No                                                                                                                                                                                                                                                                                                                                     | Α                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
| 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 lose than 45°                                                                                                                                                                                                                                                                                                          | Α                                     | Changing course less than 45°                                                                                                                                                                                                                                                                                                             | Α                     |
| Change of course                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Changing course less than 45°                                                                                                                                                                                                                                                                                                          | $\overline{}$                         | Changing Course less than 45                                                                                                                                                                                                                                                                                                              |                       |
| Cascade occurs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                     | A                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                        |                                       |                                                                                                                                                                                                                                                                                                                                           |                       |
| Cascade occurs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No                                                                                                                                                                                                                                                                                                                                     |                                       |                                                                                                                                                                                                                                                                                                                                           |                       |
| Cascade occurs  12. High angle of attack recovery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No A                                                                                                                                                                                                                                                                                                                                   | A                                     | No                                                                                                                                                                                                                                                                                                                                        | Α                     |
| Cascade occurs  12. High angle of attack recovery Recovery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No A Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                      | A                                     | No<br>Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                        | A                     |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No A Spontaneous in less than 3 s No                                                                                                                                                                                                                                                                                                   | A                                     | No<br>Spontaneous in less than 3 s                                                                                                                                                                                                                                                                                                        | A                     |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No A Spontaneous in less than 3 s No C                                                                                                                                                                                                                                                                                                 | A<br>A<br>A                           | No<br>Spontaneous in less than 3 s<br>No                                                                                                                                                                                                                                                                                                  | A<br>A<br>A           |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit                                                                                                                                                                                                                                                                                                                                                                                                                                              | No A Spontaneous in less than 3 s No C Dive forward 60° to 90°                                                                                                                                                                                                                                                                         | A<br>A<br>A                           | No Spontaneous in less than 3 s No Dive forward 30° to 60°                                                                                                                                                                                                                                                                                | A<br>A<br>A           |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse                                                                                                                                                                                                                                                                                                                                                                                                                                     | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse                                                                                                                                                                                                                                                             | A<br>A<br>C<br>A                      | No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse                                                                                                                                                                                                                                                                    | A<br>A<br>A<br>B<br>A |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses)                                                                                                                                                                                                                                                                                                                                                                                               | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No                                                                                                                                                                                                                                                          | A<br>A<br>C<br>A                      | No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No                                                                                                                                                                                                                                                                 | A<br>A<br>B<br>A      |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back                                                                                                                                                                                                                                                                                                                                                                                  | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45°                                                                                                                                                                                                                                            | A<br>A<br>C<br>A<br>A                 | No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Greater than 45°                                                                                                                                                                                                                                                | A<br>A<br>B<br>A<br>C |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse                                                                                                                                                                                                                                                                                                                                            | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight                                                                                                                                                                                                                           | A<br>A<br>C<br>A<br>A                 | No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Greater than 45°                                                                                                                                                                                                                                                | A<br>A<br>B<br>A<br>C |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse                                                                                                                                                                                                                                                                                                                 | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C                                                                                                                                                                                                                         | A A A A A                             | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight                                                                                                                                                                                                                              | A A A A C A           |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle                                                                                                                                                                                                                                        | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15°                                                                                                                                                                            | A A A A A A                           | No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45°                                                                                                                                                                                | A A A C A A           |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour                                                                                                                                                                                                                 | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation                                                                                                                                                   | A A A A A A                           | No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation                                                                                                                                                       | A A A A A A           |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course                                                                                                                                                                                          | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°                                                                                                                                    | A A A A A A                           | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360°                                                                                                                                       | A A A A A A           |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour                                                                                                                                                                                                                 | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation                                                                                                                                                   | A A A A A A                           | No Spontaneous in less than 3 s No Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation                                                                                                                                                       | A A A A A             |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course                                                                                                                                                                                          | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a                                                                               | A A A A A A                           | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous                                                                      | A A A A A A           |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs                                                                                                                                                     | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)                                                      | A A A A A A A                         | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation)                                                         | A A A A A A A         |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs                                                                                                                                                                               | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No                                                   | A A A A A A A A                       | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No                                                      | A A A A A A A         |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs  Twist occurs Cascade occurs                                                                                                                        | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No                                                | A A A A A A A A A A A A A A A A A A A | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re-inflation) No No                                                  | A A A A A A A A       |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs  Twist occurs Cascade occurs                                                                                                                        | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No                                                | A A A A A A A A A A A A A A A A A A A | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re-inflation) No No                                                  | A A A A A A A A       |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs  Twist occurs Cascade occurs Folding lines used  Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or                                      | A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No                                             | A A A A A A A A A A A A A A A A A A A | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15°        | A A A A A A A A       |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Small asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs  Twist occurs Cascade occurs Folding lines used  Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or roll angle | No A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No 90° to 180° / Dive or roll angle 15° to 45° | A A A A A A A B .                     | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15° to 45° | A A A A A A A B B     |
| Cascade occurs  12. High angle of attack recovery Recovery Cascade occurs  13. Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  14. Asymmetric collapse  Change of course until re-inflation / Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs  Twist occurs Cascade occurs Folding lines used  Large asymmetric collapse Change of course until re-inflation / Maximum dive forward or                                      | A Spontaneous in less than 3 s No C Dive forward 60° to 90° No collapse No Less than 45° Most lines tight C Less than 90° / Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No                                             | A A A A A A A A A A A A A A A A A A A | No Spontaneous in less than 3 s No  Dive forward 30° to 60° No collapse No Greater than 45° Most lines tight  Less than 90° / Dive or roll angle 15° to 45° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous reinflation) No No No No 90° to 180° / Dive or roll angle 15°        | A A A A A A A A       |

Α

10. Symmetric front collapse

| Collapse on the opposite side occurs                                     | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α |
|--------------------------------------------------------------------------|-------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------|---|
| Twist occurs                                                             | No                                                                            | Α | No                                                                            | Α |
| Cascade occurs                                                           | No                                                                            | Α | No                                                                            | Α |
| Folding lines used                                                       | No                                                                            | Α | No                                                                            | Α |
| roluing lines used                                                       | NO                                                                            | ^ | NO                                                                            | ^ |
| Small asymmetric collapse with fully activated accelerator               |                                                                               |   |                                                                               |   |
| Change of course until re-inflation / Maximum dive forward or roll angle | 90° to 180° / Dive or roll angle<br>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 (or only a small number of collapsed cells with a spontaneous reinflation) | Α | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α |
| Twist occurs                                                             | No                                                                            | Α | No                                                                            | Α |
| Cascade occurs                                                           | No                                                                            | Α | No                                                                            | Α |
| Folding lines used                                                       | No                                                                            | Α | No                                                                            | Α |
|                                                                          |                                                                               |   |                                                                               |   |
| Large asymmetric collapse with fully activated accelerator               |                                                                               | _ |                                                                               | _ |
| Change of course until re-inflation / Maximum dive forward or roll angle | 90° to 180° / Dive or roll angle<br>45° to 60°                                | С | 90° to 180° / Dive or roll angle 45° to 60°                                   | С |
| 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 (or only a small number of collapsed cells with a spontaneous reinflation) | Α | No (or only a small number of collapsed cells with a spontaneous reinflation) | Α |
| Twist occurs                                                             | No                                                                            | Α | No                                                                            | Α |
| Cascade occurs                                                           | No                                                                            | Α | No                                                                            | Α |
| Folding lines used                                                       | No                                                                            | Α | No                                                                            | Α |
| 15. Directional control with a maintained asymmetric                     | A                                                                             |   |                                                                               |   |
| collapse                                                                 | V                                                                             |   | V                                                                             |   |
| Able to keep course                                                      | Yes                                                                           | A | Yes                                                                           | A |
| 180° turn away from the collapsed side possible in 10 s                  | Yes                                                                           | A | 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                                              | Α                                                                             |   |                                                                               |   |
| Spin occurs                                                              | No                                                                            | Α | No                                                                            | Α |
| 18. Recovery from a developed spin                                       | Α                                                                             |   |                                                                               |   |
| 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                                                             | A                                                                             |   |                                                                               |   |
| 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                                       | 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 |
|                                                                          |                                                                               |   |                                                                               |   |

| Behaviour immediately after releasing the accelerator while maintaining big ears   | Stable flight | А | Stable flight | Α |
|------------------------------------------------------------------------------------|---------------|---|---------------|---|
| 22. Alternative means of directional control                                       | Α             |   |               |   |
| 180° turn achievable in 20 s                                                       | Yes           | Α | Yes           | Α |
| Stall or spin occurs                                                               | No            | Α | No            | Α |
| 23. Any other flight procedure and/or configuration described in the user's manual | 0             |   |               |   |
| Procedure works as described                                                       | not available | 0 | not available | 0 |
| Procedure suitable for novice pilots                                               | not available | 0 | not available | 0 |
| Cascade occurs                                                                     | not available | 0 | not available | 0 |

## 24. Comments of test pilot

Comments