

CCC Open Meeting Report

Plenary Annex 5

Attendants:

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Key points of the new CCC requirements (not an exhaustive list)

Scaling and manufacturer self-certification

If a paraglider of model size XS (maximum take off weight 90kg or less) has been certified in accordance with sections 5.1 and 5.2 THEN other sizes of that paraglider model derived by linear scaling from the CCC certified model size XS (maximum take off weight 90kg or less) are also CIVL Certified Competition Class paragliders. For these scaled model sizes the linear scaling factor must be defined by the manufacturer, and the wing measurement specifications must conform to that scaling factor with zero tolerance in all features except the lines. The lines for the scaled sizes must comply with the 23G theoretical load test (section 8.3) and the line lengths must correspond to the scaled dimensions with tolerance of +20mm, -20mm on the total length of each linked line measured from riser to sail.

Structural strength

The test specimen's model size passed the structural strength tests specified in section 8.2 or

The test specimen has identical structure (materials, construction) to an existing or previous model of the same or larger maximum size that passed the structural strength tests as defined in section 8.2 AND the test specimen fulfils the theoretical line breaking strength requirements of section 8.3.

Riser set layout

The test specimen's accelerator system, when fully engaged, shortens the front-most riser by 140mm or less (tolerance 5mm), in relation to the rear-most riser, and the riser set is designed including physical limiter(s) to prevent any further shortening of the front-most riser relative to the rear-most riser by pilot action (such as application of excessive force).

The riser set must be clearly marked to show the accelerator position where the 100-105mm certification limiter is tight, and where the high speed flight tests were performed.

The maximum shortening of the front-most risers relative to the rear-most riser through the accelerator is 140mm with tolerance 5mm.

For certification high speed test flights the risers are fitted with a limiter that fixes the maximum shortening of the front-most risers relative to the rear-most riser to between 100mm and 105mm.

Permitted paragliders in FAI Category 1 competitions

- Any EN-certified paraglider is permitted
- Any CIVL Competition Class certified paraglider is permitted if all the following apply:
- The XS (maximum take off weight 90kg or less) model of the glider certification has been completed and all flight test videos, measurement specifications and documentations have been made available at the independent test house at least 90 days before the start of the FAI Category 1 competition.
- The measurement specifications and documentation for any other sizes of the paraglider model produced by linear scaling from the XS have been made available at CIVL at least 60 days before the start of the FAI Category 1 competition
- The gliders have been made available to the pilots at least 30 days before the start of the FAI Category 1 event.

Line breaking strength test

The test specimen's top weight is compared with the theoretical breaking strength of the test specimen's complete line system (excluding brakes). The theoretical breaking strength is calculated based on the measured breaking strengths of samples of the line materials

actually used for the test specimen, and built using identical materials and splicing techniques.

The load calculation for testing the breaking strength of the line sets shall be applied to each size of the glider, at the maximum flying weight of that glider size.

If identically constructed lines have already been tested and their breaking strength is known, then these previously established values may be used.

The line breaking strengths for the load calculation will be based on the tests of an independent testing laboratory.

A pilot may repair damaged lines by replacing them with identical lines or lines of greater strength.

Flight test

In cases where the XS (maximum take off weight 90kg or less) size of the paraglider model has been tested by an independent accredited test organisation and has CIVL Competition Class Certification, other sizes of the test specimen may be produced by linear scaling from the XS. For those scaled gliders the flight tests may be carried out by a manufacturer test pilot at the manufacturer's test site.

For the test flights of the wings produced by linear scaling from the XS, the test flights are to be performed by the manufacturer test pilot at the manufacturer's test site, and correct execution of the tests is to be verified by the manufacturer through direct observation as well as inspection of all recorded video evidence.