

## Recommendations for complying with GFA document AIRW-D026 “Guidance on Skids and Wheels on Sailplanes and Powered Sailplanes”

1. Download and print the installation recommendations from [www.gliderwheels.net](http://www.gliderwheels.net) and the GFA document AIRW-D026 from [www.glidingaustralia.org](http://www.glidingaustralia.org) - click Docs/Forms and then click on the word Airworthiness (not the down arrow) and scroll down the list of documents.
2. Weigh the skids or wheels to be installed.
3. Install the skids or wheels in accordance with the installation guide which complies with AIRW-D026. Make a sketch of the installation (see sample below).
4. Fill in items 1 to 5 of General installation requirements and guidelines checklist in AIRW-D026.
5. Rig the glider.
6. Apply the test loads required by items 6 in the table in AIRW-D026 as follows:

### Downward Load

- a. Attach a small G clamp to the wheel or wheel housing or half way along the skid.
- b. Hang a string loop from the G clamp, aligned with the centreline of the wheel or skid.
- c. Apply a downward load of 9 times the measured weight of the attached wheel / skid unit (item 2 above). This can be by spring balance or measured weight. The weight of the G clamp can be subtracted from the applied load.

### Rearwards Load

- a. Run a string loop around the front of the wheel housing or skid and using a spring balance, apply a rearwards load of 2kg to the string loop.



7. Make the following entry in the aircraft logbook (modified to suit actual installation):

Wingtip skids were removed and replaced with wingtip wheels from Gliderwheels.net. The wheel units each weighed 250gm and were bonded with white Sikaflex 291 (marine adhesive and sealant).

8. Consider whether flight testing may be required under controlled conditions to verify the installation for any flutter or “buzz” influence on the controls.

9. Complete items 6 & 7 of the General installation requirements and guidelines checklist and the subsequent tables in AIRW-D029.

Example sketch:

Left hand wing wheel location shown (right hand wing similar):

