

Date: 10 May 24

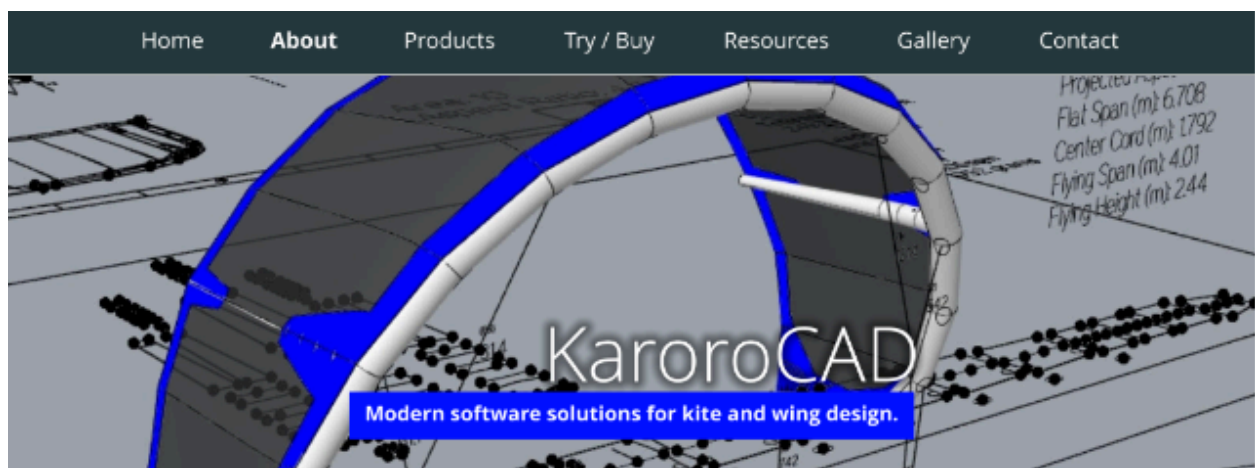
Hello KaroroCAD users,

Welcome to the May 2024 update from us here at KaroroCAD HQ.

BIG NEWS - KaroroCAD.com Website LIVE

So its been 7 years since the KaroroCAD project was started and for the first time we now have a full website to show off all of the KaroroCAD tools:

www.karorocad.com



About KaroroCAD

KaroroCAD is a development by David Kay, one of the most experienced and well known product designers in the kite industry.

The project was started in 2017 as a personal tool to help in the development of kites. The program has grown over time and is now a fully featured set of tools, running as a plugin within Rhino3D or online in a web browser.

Of particular interest to kite designers is the use of AI to help in the design and development of bridles for SLE kites. KaroroTUNE



Please, jump on, have a look and feel free to come back with any feed back.

Also if you have any pictures of KaroroCAD kites or wings for the gallery we would love to have these to add to the collection.

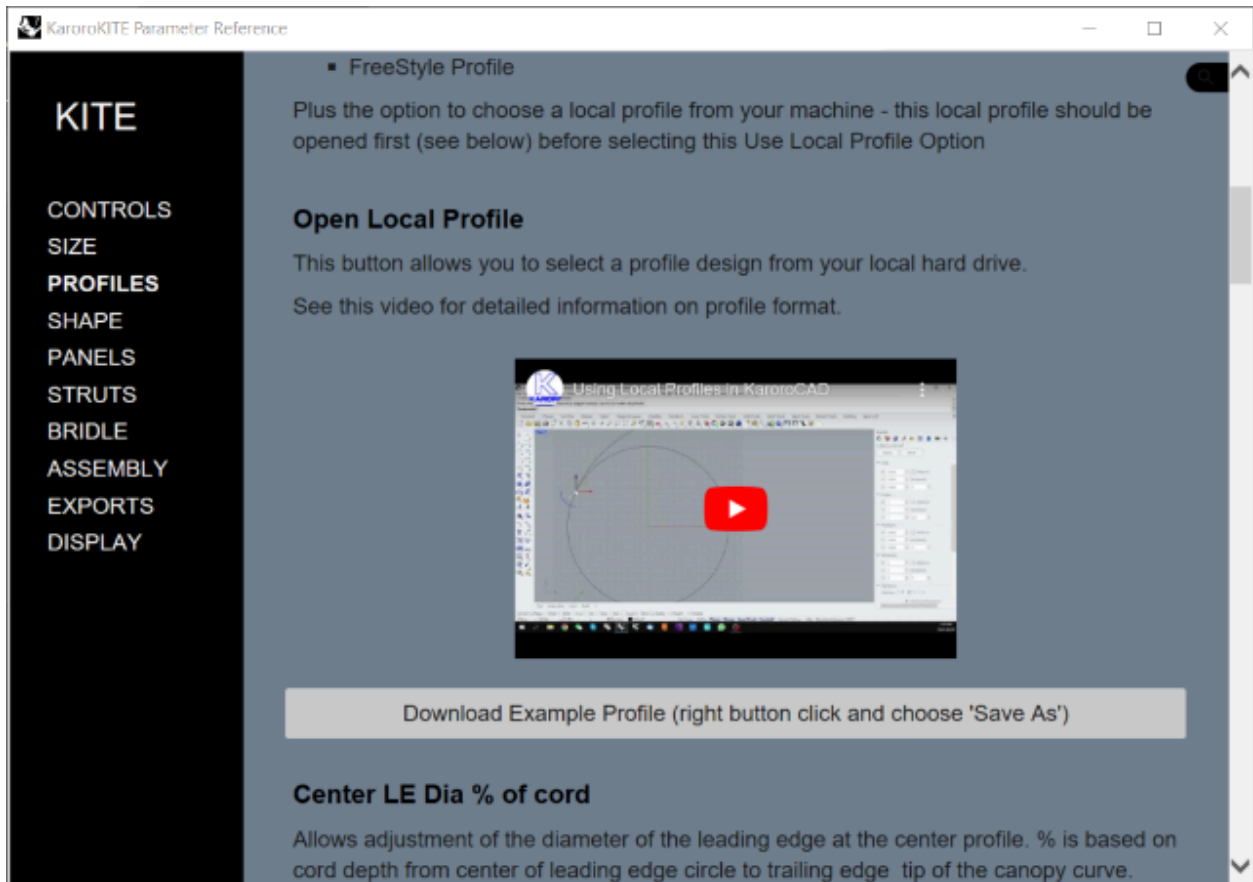
KITE and WING - HELP File, work in progress

We have started the process of developing a full set of parameter references for all KaroroCAD tools.

When you install the latest updates you will see an added HELP button to the controls menu:



Clicking this will open a new window with the references to the parameters on the current page:



For now only the PROFILES and EXPORTS parameters are filled in, but others will be documented over coming weeks.

The platform we are using allows for embedding of files, videos and other information - we hope you will all find this a very useful addition to the KaroroCAD ecosystem.

KITE and WING - Tip Profile Edit Tools

By default KaroroCAD builds a flat final canopy profile, tangent to the leading edge circle. The other canopy profiles are a morph between the center profile and this flat tip profile.

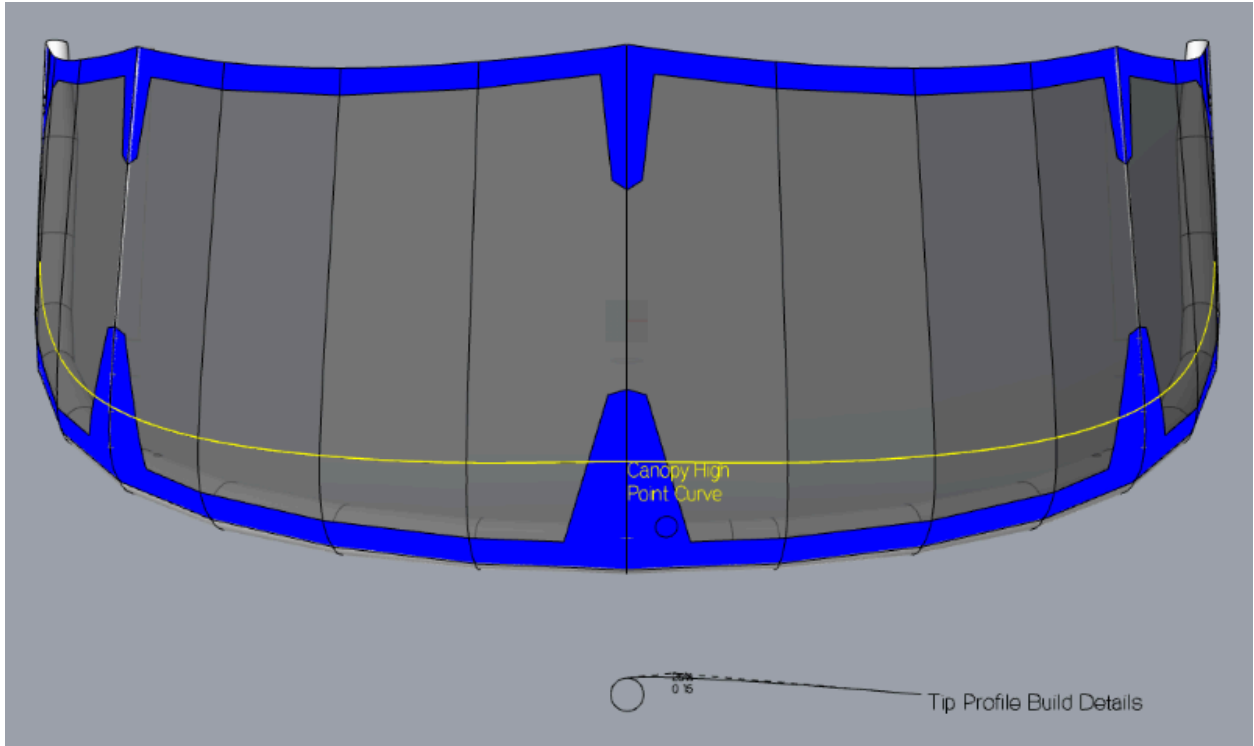
To give more control over the shape of the canopy we have added the ability to add an adjustable curve to this last profile:

Tip Profile Curve Height (-100 to 100):	25	OK
Tip Profile Curve High Point Position (0.05 to 0.95):	0.15	OK
<input checked="" type="checkbox"/> SHOW TIP PROFILE BUILD DETAILS		

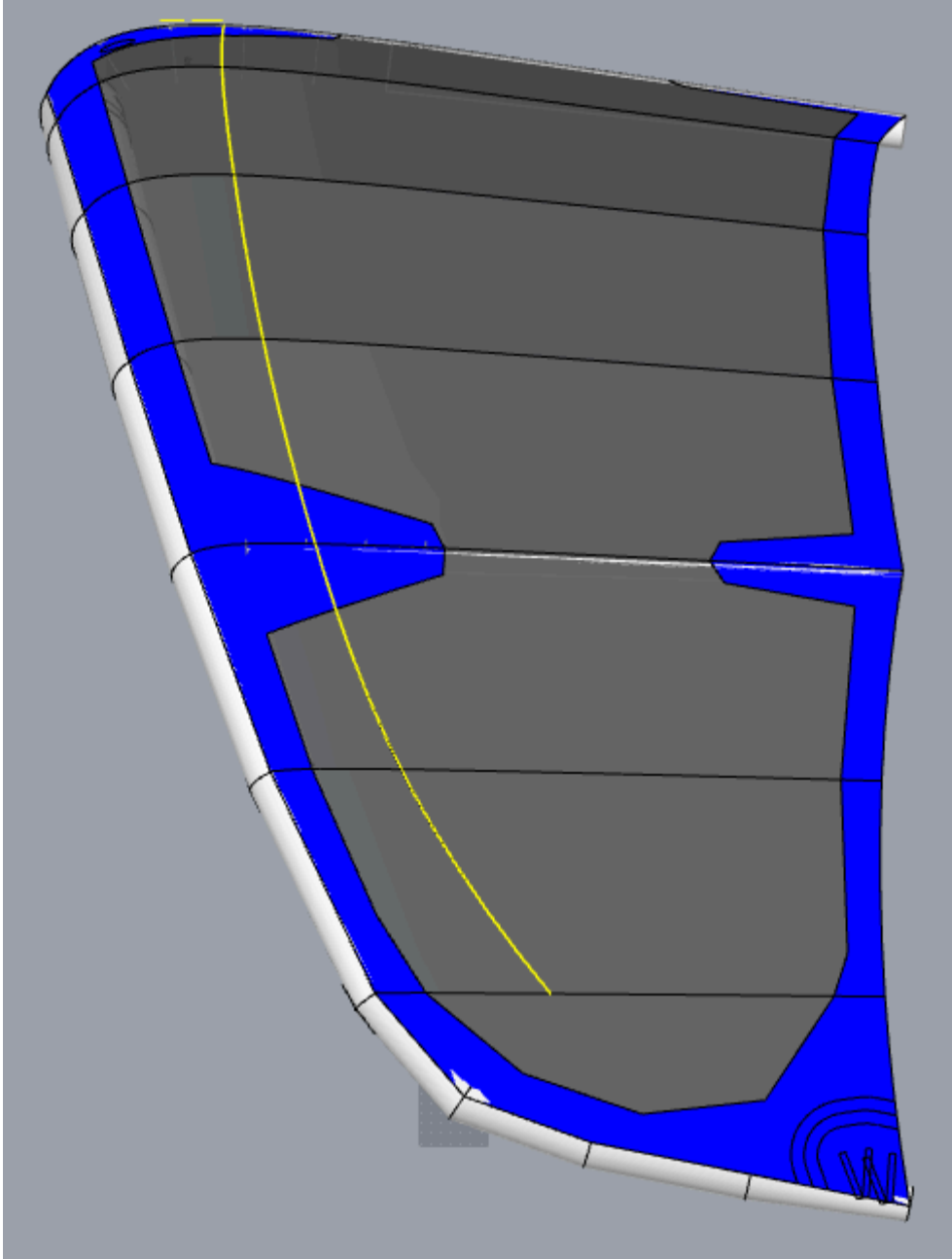
The SHOW TIP PROFILE BUILD DETAILS shows how this curve looks:



This also shows a curve that follows the high point line on the canopy:

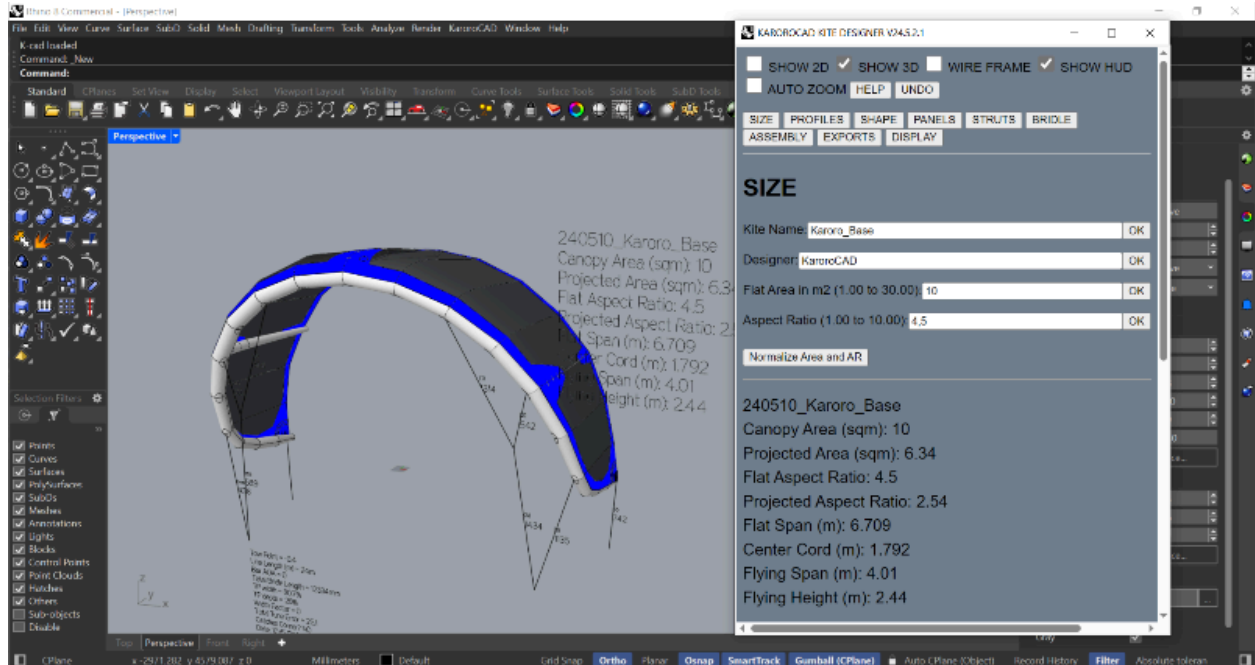


Tip Profile Build Details



PLEASE NOTE: These are newer tools than **Final Profile Height** tool and allows for finer control over the profile than Final Profile Height, suggest you use one or the other, not both.

Rhino 8 - UPDATE



We have been working closely with the McNeel/Rhino team to get KaroroCAD working well in Rhino 8.

This seems to have paid off, with one of our testers using KaroroCAD in Rhino 8 full time now with no stability issues reported.

We can now recommend Rhino 8 for production use.

There are some finer details in the KaroroCAD user interface that work better in Rhino 8, and KaroroTUNE certainly runs faster in the new platform.

Misc and Bug Fixes

- KaroroTUNE has a modified algorithm to speed up tunes by not checking same bridle twice
- Design Comparison Tool launches using button rather than check box
- User Interface launch code improved to allow more reliability and better reload
- User Interface code blocks on submit to prevent double submit crash issue, UI shows colour change to indicate
- Profile Depths/TE/LE Diameters/Canopy Lengths added to the save files so they are available in design compare tool
- Added KaroroCAD version number to the save file
- Fixed a bug in the LE valve placement code - valves now place as shown in the User Interface
- Fixed LE valves and panel markings missing from 2D MFG files
- Fixed Inlet Valve layout issue after LE unroll - was not being moved to match other items
- Improved the wing tip canopy panel code to get better fit across different wing tip shapes and angles

- Fixed Wing tip canopy attachment angle error
- Changed launch code to prevent situation that can launch kite and wing in same Rhino file
- Improved NORMALIZE AREA and AR code to help improve reliability

Install file

Rhino 7 and 8 for Windows, Rhino 8 for MacOS:

(please message if you need macrhi file for Rhino 7 for MacOS)

Thank again for all your feedback and support - more updates next month.

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Best Regards,

Dave Kay (DK)

Product & Software Engineer

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