

What users think about AzureProject

"Just after a bit more than one year using AzureProject, we are able to compete with the big sailmaker brands at the same level!

Our sails, designed with AzureProject, are **winning** the most important races and showing that sails, made by an independent sailmaker as us, can **win competitions** thanks to accurate design, use of good materials and manufacture. SMAR Azure has provided us with a **powerful** software that allows us to **design perfectly** our **sails** and also the **fiber layout**. AzureProject helps us to improve the sailing **performance** via the aerodynamic studies and perform structural analysis to ensure good **durability** of our sails."

Nacho Orti, Advanced Sails, Spain



Jib No 3 for a x-35
(3rd in Palmavela)
Photo courtesy of Nacho Orti

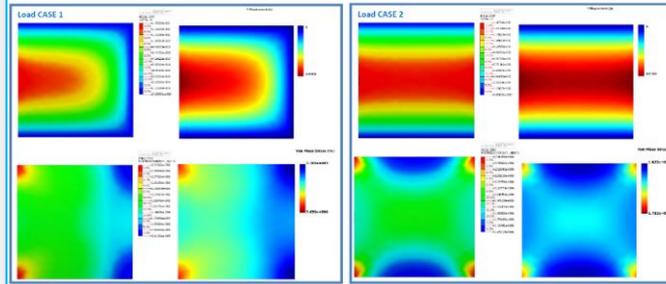
"We like to work with AzureProject because it allows us to design our sail with an **exceptional precision**. The ability to show to our customer panels and reinforcements, colour schemes, the placement of the ads/logos has **dramatically** improved the communication with our customer and speed up the finish of our sails. The support we receive from SMAR Azure's team is **invaluable**: as soon as there is a problem, there is a quick help, we always get it."

Elwira Wolowicz, TJ Sails, Poland



Table 1: Maximum displacement and maximum stress from midasNFX and AzureProject

Load case	midasNFX		AzureProject		Difference (%)	
	Max displ [mm]	Max stress [MPa]	Max displ [mm]	Max stress [MPa]	Max displ	Max stress
1	14.53	3.654	14.54	3.633	0.1%	-0.6%
2	13.87	2.756	13.88	2.732	0.1%	-0.9%
3	20.94	14.53	20.92	14.47	-0.1%	-0.4%
4	18.23	14.11	18.19	14.04	-0.2%	-0.5%



Maximum displacement when comparing AzureProject and midasNFX is less than 0.2%!

Sail structural analysis validation

Sails structural model is made of membrane elements. Validation tests have been carried out to compare the AzureProject sails structural analysis results with the ones obtained from a commercial available software-midasNFX (www.midasnfx.com).

A simple flat square membrane has been created in AzureProject. The same model has been created as similar as possible in midasNFX.

An uniform pressure has been applied on those models. Results and comparison are shown in the table on the left.

The numerical comparison is focused on the maximum displacement and on the maximum equivalent stress (computed with Von Mises formula). The results obtained from AzureProject and midasNFX showed less than <0.2% differences on maximum displacement.

Full info on validation test can be found [here](#).

12-months license options

Beside the traditional PERPETUAL LICENSE option, it is now possible to RENT **AzureProject** and/or **RigEdge** annually (12 months).

The ANNUAL license fee includes Maintenance & Support services, which means bug fixing, free software updates and dedicated technical support via Skype/email/phone & e-ticket system.

The ANNUAL License option offers important advantages: not only are the Maintenance and Support services included, but moreover, if the annual rent is renewed for 2 consecutive years, the license will become perpetual!!

AzureProject, the sail design software: outlook on the new version

New important features will be soon released:

- 1. Curved seam options:** The user is able to define a curved seam using control points
- 2. Intermediate battens** - it is now possible to add battens that do not influence the leech shaping. These are intended for use on fully battened sails where the hollow between battens is set on the full battens.
- 3. Rotating mast:** In the 3D view it is possible to show the mast in a rotated position.
- 4. "Text as Lines" option** allows writing any text to NTV files directly as PLOT lines rather than text entities.

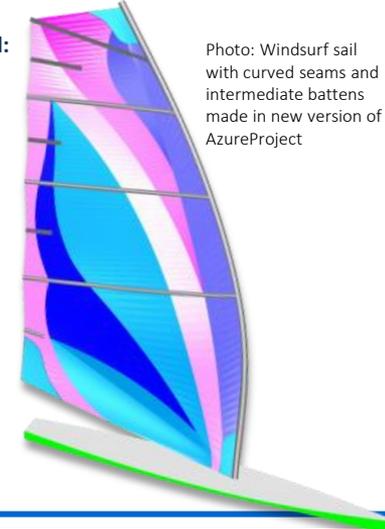


Photo: Windsurf sail with curved seams and intermediate battens made in new version of AzureProject