

IN THIS EDITION:

METS 2025 Plan:

Meet our team
in person, book now

New Software Updates:

AzureProject new updates

Francesco Corner:

Understanding Sail Analysis – From
Shape to Structure

Metstrade

METSTRADE Amsterdam
18-20 November 2025

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We will be at METS Trade 2025
Visit us!



Our team will be happy to meet everyone interested in
our solutions for sail and rig design.

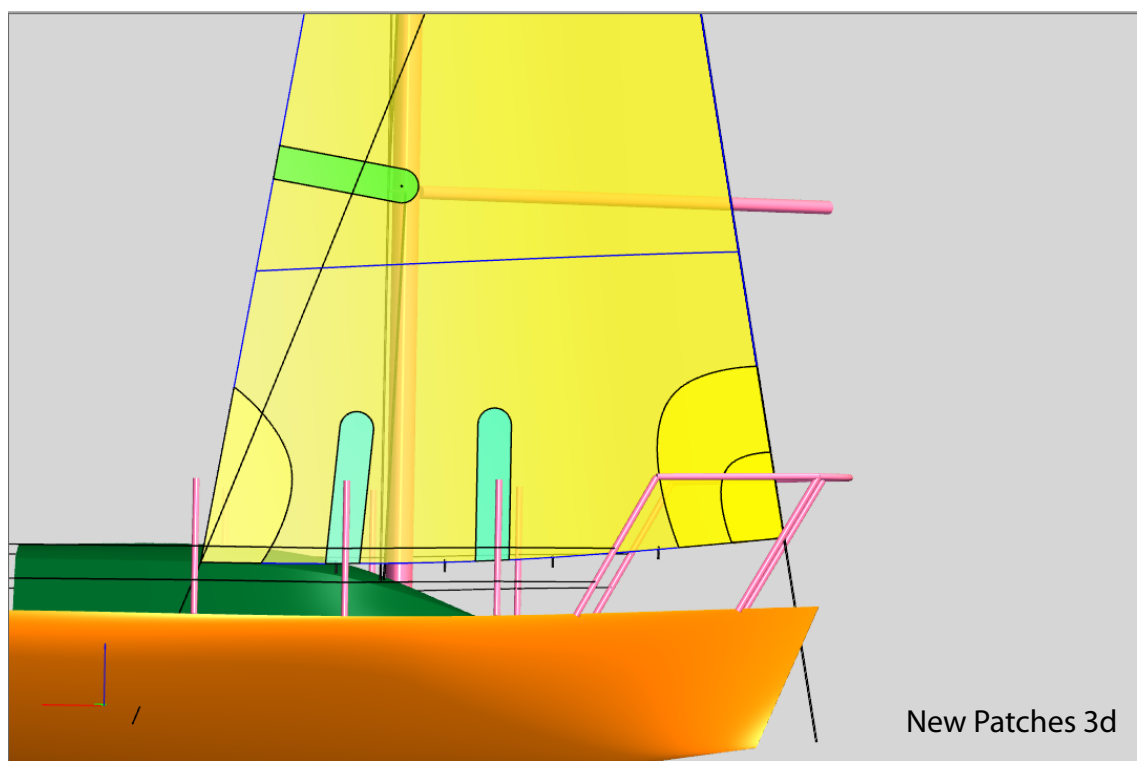
Learn and discuss the new versions of:

AzureProject: the fully integrated sail design and
performance analysis software.

RigEdge: the unique, fully integrated rig analysis and
optimisation system.

Coming This Autumn: AzureProject Update

Get ready for the latest release of AzureProject, arriving this autumn with a host of
new features and fixes. Highlights include the addition of patch options for spread-
ers, stanchions, and retrieval points—designed to streamline your workflow and
enhance precision.



New Patches 3d

What's in Development

Here's a preview of some exciting features currently in progress:

Window Cut-Out

Designed to reduce sailcloth waste and manual effort, this feature allows a panel to
be divided into sections to form a window. The transparent window area can be cut
separately, eliminating the need for manual cut-outs before assembly.

Lensfoot Enhancements

Improvements include a more intuitive shaping tool, automatic area calculation, text
references on developed panels, and foot eyelet marking for easier alignment.

Inner Outline Excess on Cover

Adds the ability to set an excess on the UV cover's inner outline, making it easier to
fold and stitch during production.

Production Sheet Upgrades

Production sheets now include corner angles, ply patch details, and lensfoot
specifications—providing clearer guidance for assembly.



FRANCESCO'S CORNER: AZURE PROJECT TIPS

Understanding Sail Analysis – From Shape to Structure

Accurate analysis plays a key role in refining both the
aerodynamic shape and the structural layout of a sail,
ensuring the final design achieves the right balance
between performance and reliability. Our analysis tools
allow designers to study airflow, pressure distribution,
material strain and deformation – supporting informed
design choices on sail geometry, panel layout, and rein-
forcement placement.

To help users make the most of these tools, we recently
held two webinars explaining the theoretical principles
and practical procedures behind our aerodynamic and
structural analysis methods.

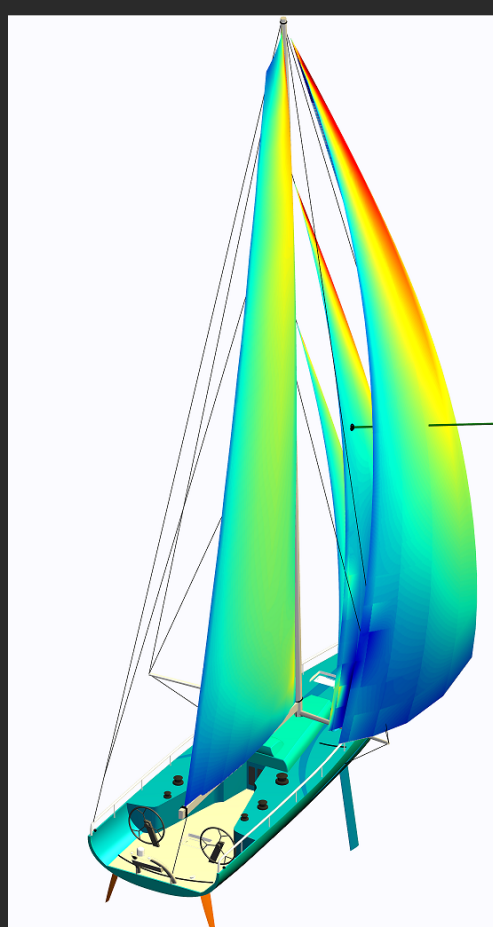
Aerodynamic Analysis

Covers airflow and pressure distribution around sails,
interaction between main and headsail, aerodynamic
forces and balance, and procedures for analysis and opti-
misation.

Structural Analysis

Focuses on finite element modelling, load assessment,
stress and strain evaluation, and structural optimisation
through material selection and reinforcement layout.

These sessions provide a valuable overview for anyone
looking to better understand the physical principles
behind sail performance and how our tools support the
design optimisation process – from concept to final
structure.



Francesco Nasato
Support Engineer
SMAR Azure

If you have any questions, or you would like to know more about
any features, please contact us at support@smar-azure.com