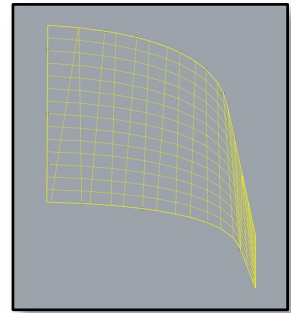# Version 12 update

**MPanel**
PRODUCTION

The version 12 update adds several new tools and improvements to existing tools and is compatible with Rhino versions 5 to 8. As always, development is driven by requests from you, our users, so if you have ideas which you think would help you, feel free to share your ideas. Below is a brief description of the updates with links to short videos which demonstrate how the new features work.

## Add ruled surface mesh

This major new feature draws a "ruled surface" mesh between 4 edges. A ruled surface is a surface mesh created by a straight line connecting one side of the mesh to the other with varying spacings - consider these to be fold or crease lines (see image below). This surface mesh form is ideal for marine windscreen as it will produce single panels with very low shear strain values.



## Other new features and improvements

- Create panel cuffs either normal or mirrored to selected edge.

- Option to minimize menu ribbon to include results window.

- Right click on an active menu button will now minimize option screen to the basic toolbar.

- Marks are preserved during "Add hole to panel" and "split panel with hole".

- Nesting inverted panels maintains stamp text position correctly.

- Face meshes can now be used to make cross sections

We trust you will enjoy these new features and that they will benefit your business. Thank you for your continued support and again, we encourage you to provide feedback and suggestions for other improvements that might benefit you in the future.

MPanel Support Team

May 2024