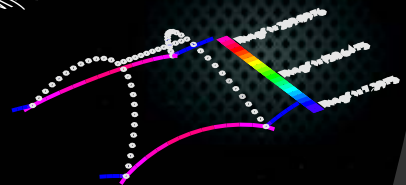
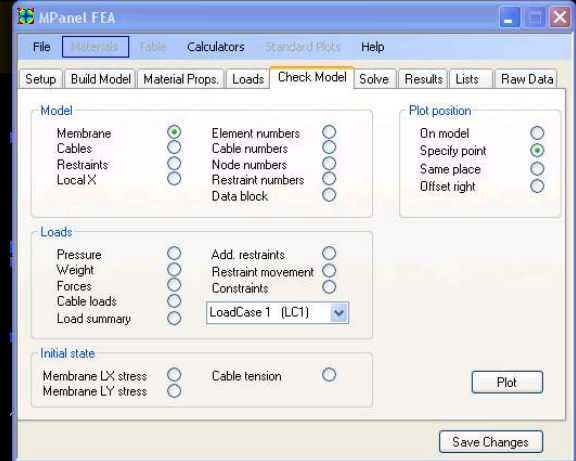
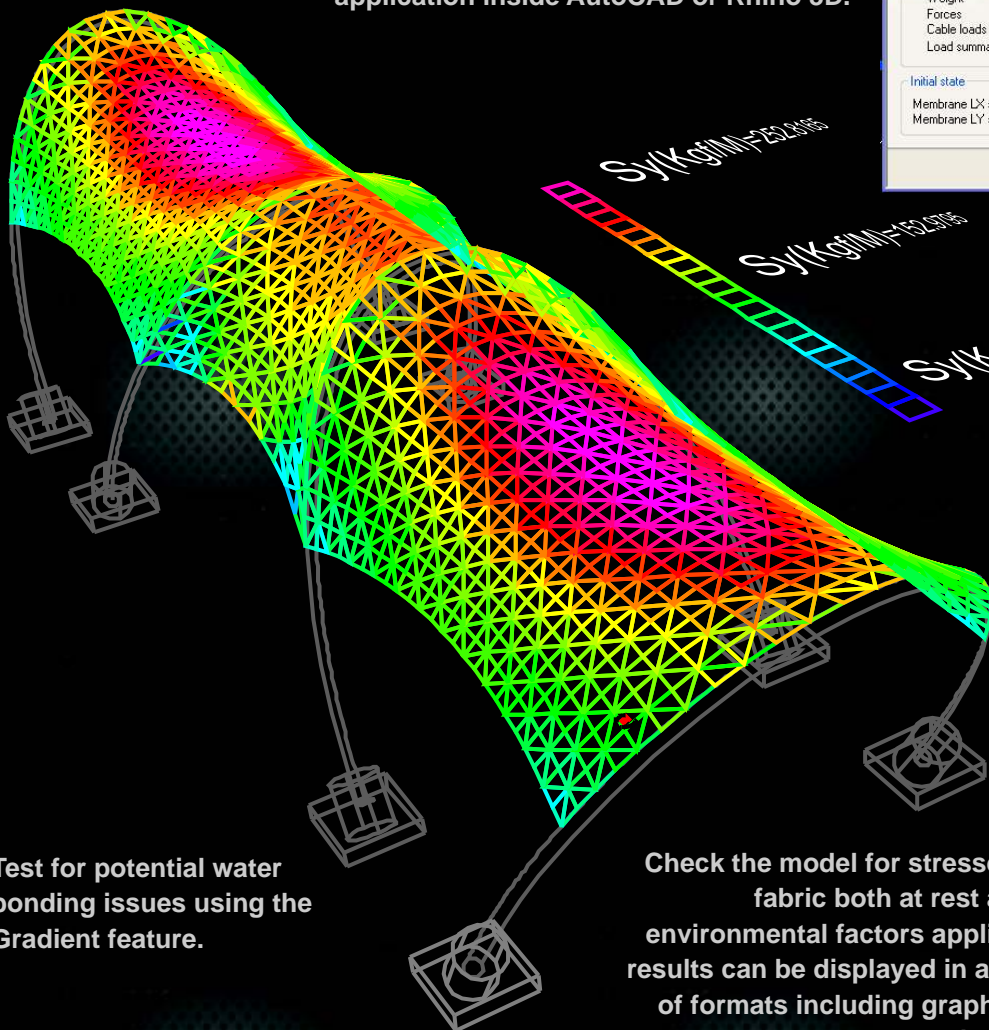


# Meliar Design MPanel FEA

Finite Element Analysis software for tensile fabric structure design professionals

## What is Mpanel FEA software?

MPanel FEA software is a comprehensive set of engineering tools that assist a user with the design and analysis of tensile fabric structures and industrial fabric materials under environmental conditions such as wind and snow. It acts as a floating application inside AutoCAD or Rhino 3D.



Use MPanel FEA to determine the reactions and loads of all connections and cables, whether internal or located on an edge.

Test for potential water ponding issues using the Gradient feature.

Check the model for stresses in the fabric both at rest and with environmental factors applied. The results can be displayed in a number of formats including graphical and tabular data.



autodesk  
authorized developer

AutoCAD

MPanel & MPanel FEA work with  
AutoCAD and Rhino3D CAD platforms

IFAI proud member  
INDUSTRIAL FABRICS ASSOCIATION INTERNATIONAL

www.mpanel.com

How does it work?

# MPanel FEA

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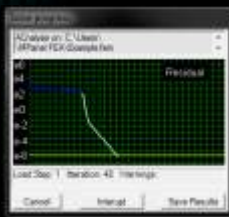
MPanel FEA connects a powerful Finite Element Analysis engine with an easy to understand user interface, to give you a robust solution to non-linear FEA. The MPanel FEA interface reads a standard MPanel drawing and builds an FE model ready for analysis. Next, the solver is run to determine the model displacements for the load conditions, such as wind effects and snow cover.

## A Non-Linear Analysis Engine



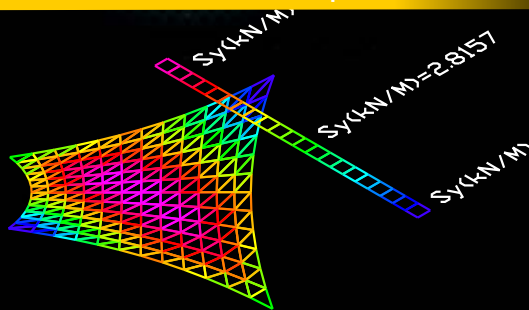
Specify the type of fabric and cable diameters along with a Pre-Stress to determine initial reactions. Add environmental factors such as Wind and Snow to test loading capacity.

## FEA Solver



The non-linear solver is quick and efficient.

## Results & Outputs



The screenshot shows the 'RESULTS' window with raw tabular data. It includes sections for 'LIMITS', 'SCALE FACTOR', 'MAX MEMBER', and 'POINT LIST'. The data is presented in a structured format suitable for export to MS Excel.

Results are provided in both graphical representations drawing on the screen as well as in raw tabular data for use in MS Excel or import into other structural applications.

Call or email us at [support@mpanel.com](mailto:support@mpanel.com) for a **FREE** 30-Day Evaluation of any product

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