

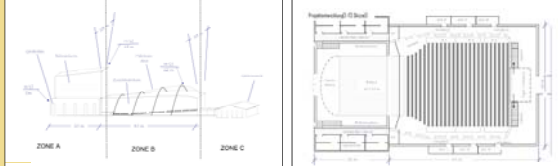
Mehler Technologies Tensile structures software



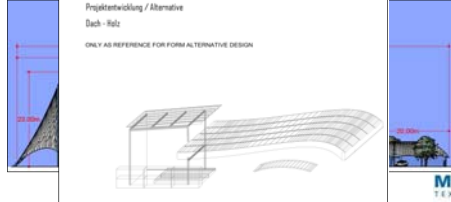


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Example of tensile structures design approach:

First architectural sketches



Design approach and tendering







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An easy approach to tensile structures design:
Mehler Tensile Draw^{LT}

MEHLER Tensiledraw^{LT}

Compatible and easy to use: the program as **unique AUTOCAD & RHINO plug-in** and will give architects and planner the possibility in design 3-D membrane roofs and get first relevant information at very preliminary design stage.

Please note that Rhinoceros and AutoCAD are trademarks registered by the relative owners

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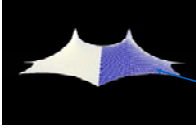
Mehler Tensile Draw^{LT} free formfinding: no limitation to your design imagination






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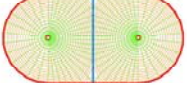
Mehler TensileDraw^{LT} skilled advantages: no more complicate files exportation



3 D Model

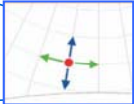


Tensile structure




— WEFT
— WARP
— BORDER
— LABLE

MehlerTD is a useful help in 3D model design: it can simulate well balanced force stress distribution on the membrane surface without complicating file exportation and related compatibly problems.



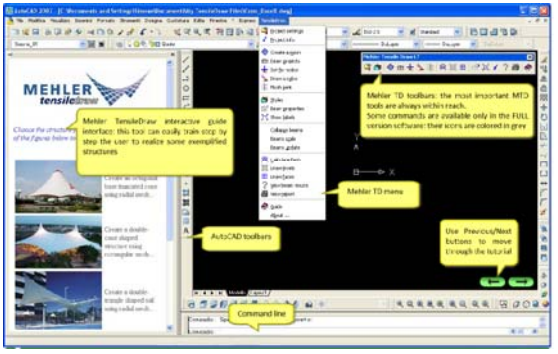

Every node of the mesh is force-balanced in all 3D space direction.

The application can calculate the form of complex geometry fabric structures thanks to the generation of a warp and weft beam mesh reproducing orthotropic behavior of fabric



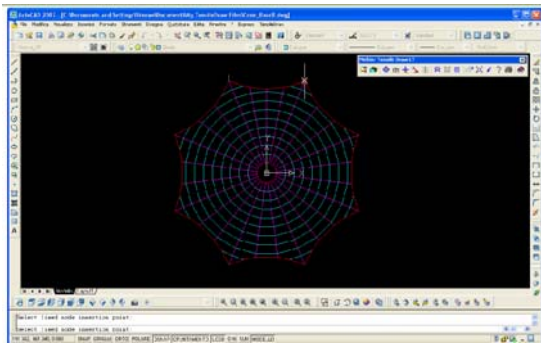
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Mehler Tensile Draw^{LT} commands Interface: an interactive example as integration of Autocad

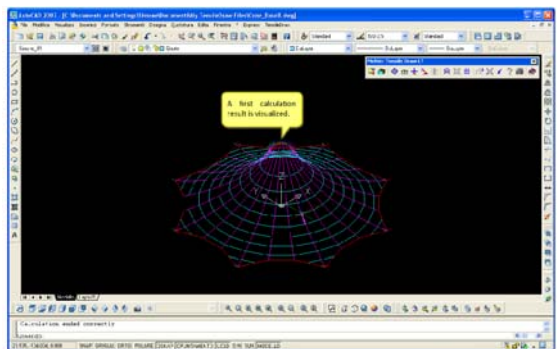
Mehler Tensile Draw^{LT} simply design process:
Generate your form into your design context

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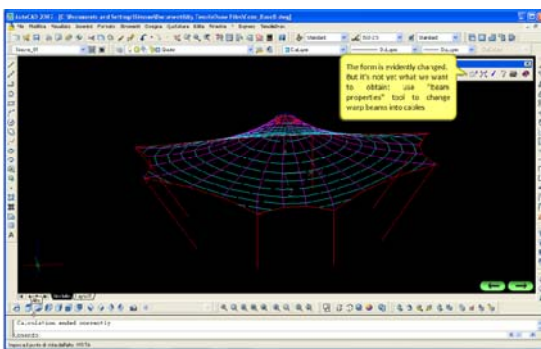
Mehler Tensile Draw^{LT} form generation:
create your visual mesh

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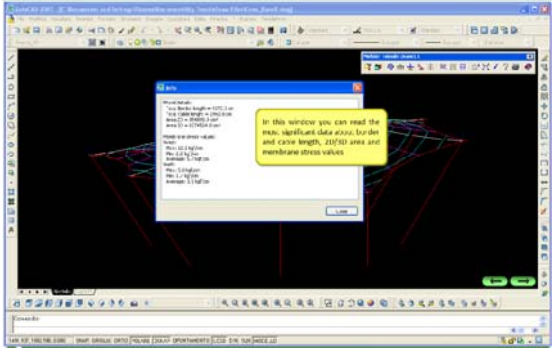
Mehler Tensile Draw^{LT} form generation:
adapt the form to your needs – replace elements

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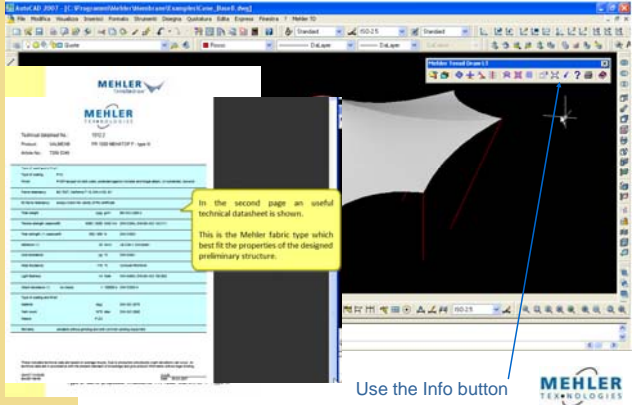
Mehler Tensile Draw^{LT} properties check:
use info button to control your design components

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Mehler Tensile Draw^{LT} AUTOCAD results:
preliminary design and information output

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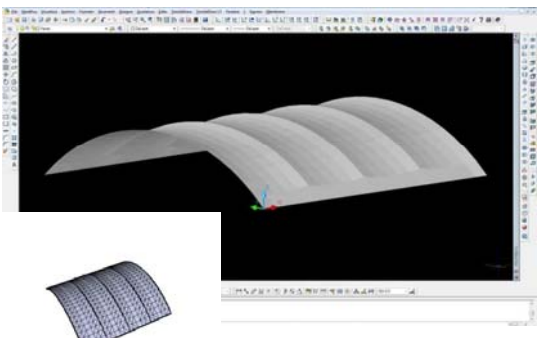


Use the Info button



Mehler Tensile Draw^{LT} freedom:
Example of arch supported form

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Mehler Tensile DrawLT freedom:
Example of pneumatic supported form

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Mehler Tensile DrawLT freedom:
Example of conical tensioned form

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Mehler Tensile DrawLT versatility:
easily integrate your creation in your concept design

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Tensile Draw FULL:
provided by ME+C s.r.l. at www.me-c.it

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Connection nodes/beams

Single cone structure

Multi cone structure

Contour lines

Levels command draws the contour line on the fabric surface: the easiest way to visualize the surface slope and localize potential water stagnation zones.

CONNECTION BEAM

CONNECTION NODE

FLAT ZONE

Besides the base information given by Mehler TensileDraw LT,

TensileDraw Full provides some technical data more:

- Cable stress value
- Fixed node preliminary reactions
- Geodesic lines orientation

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Mehler Tensile DrawLT information:
visit www.mehler-technologies.com

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Guidelines, manuals, forum access and download tutorials are available on our web page.

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A valid support to tensile structures realizations:
Mehler technical guideline

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Technical guideline to permanent tensile architectures

A comprehensive and practical set out of preliminary information all around tensile structures intended as a basic guide to assist in concept design and projects realisations for all those who approach the technical and commercial aspects of membrane lightweight structures solutions.

To download at:
www.mehler-technologies.com

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