



MEPLA PRO

[2025.0.0]

Program description and Requiements

Februar 2025

Features of the 3 different software packages

| Standard | Advanced | Complete |
|--|---|--|
| <ul style="list-style-type: none"> Simple definition of any geometries with tool help | <ul style="list-style-type: none"> All from Standard | <ul style="list-style-type: none"> All from Advanced |
| <ul style="list-style-type: none"> Multiple geometry structures | Point- and clamp fixings <ul style="list-style-type: none"> 11 different Types | Dyn. Calculations |
| <ul style="list-style-type: none"> Laminated glass up to 20 layers (sandwich theory) | <ul style="list-style-type: none"> Parametric templates for clamps and fixings | <ul style="list-style-type: none"> Pendulum impact simulation |
| <ul style="list-style-type: none"> Insulation glass up to 3 gaps | <ul style="list-style-type: none"> Additional user defined parametric clamps of any type (a lot of templates included) | <ul style="list-style-type: none"> Pressure hit wind blast detonation load simulation |
| <ul style="list-style-type: none"> Exact solution for climate loads for any shape | <ul style="list-style-type: none"> Also for insulated glass | <ul style="list-style-type: none"> Enhanced impactor with damping effects |
| <ul style="list-style-type: none"> Linear, non-linear behaviour | <ul style="list-style-type: none"> Adding new own clamps types of any shape | <ul style="list-style-type: none"> Frequency simulation of first modes |
| <ul style="list-style-type: none"> Elastic supports, edge beams, springs, spacers, ... | <ul style="list-style-type: none"> Database integration of pictures and data for own fixings | <ul style="list-style-type: none"> Video option in the graphics |
| <ul style="list-style-type: none"> Face loads, conc. Loads, lines loads, dead weight, loads at fixings, ... | <ul style="list-style-type: none"> Automated mesh integration of all point fixings and clamps only by positioning | Residual Capacity |
| <ul style="list-style-type: none"> Contact conditions | <ul style="list-style-type: none"> Automated mesh refinement for all Point- and clamp fixings | <ul style="list-style-type: none"> Approach for broken layers (one layer must remain unbroken) |
| <ul style="list-style-type: none"> Automated mesh refinement | <ul style="list-style-type: none"> Automated stress proof at bore holes | <ul style="list-style-type: none"> Possible crack propagation simulation |
| <ul style="list-style-type: none"> Predefined Standard templates | <ul style="list-style-type: none"> Contact conditions at fixings and clamps | <ul style="list-style-type: none"> Deformation simulation for laminates |
| <ul style="list-style-type: none"> Any custom standard templates possible | <ul style="list-style-type: none"> Connecting geometry structures by clamps | |
| <ul style="list-style-type: none"> Automated load case set up | <ul style="list-style-type: none"> Elongated fins by clamps | |
| <ul style="list-style-type: none"> Automated design proof, Design formula interpreter | <ul style="list-style-type: none"> Building notched cut-outs in clamps | |
| <ul style="list-style-type: none"> Automated stress proof at free edges | | |
| <ul style="list-style-type: none"> Insulated glass areas | | |

System Requirements

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| Running on operation system | Windows® 10 (discontinued in 2025) Windows® 11 macOS® (in Windows® emulation) → ARM Processor structure not possible! |
| RAM requirements | > 8GB (more is better) |
| Fast actual multi-core CPU's | > 4 (the more the better) |
| Graphic Card Graphic platform by <i>OpenGL</i> | intel® Graphics Card, Nvidia® or other ... |
| Free disk space | 2 GB |
| Internet access | at least from time to time and for license activation |