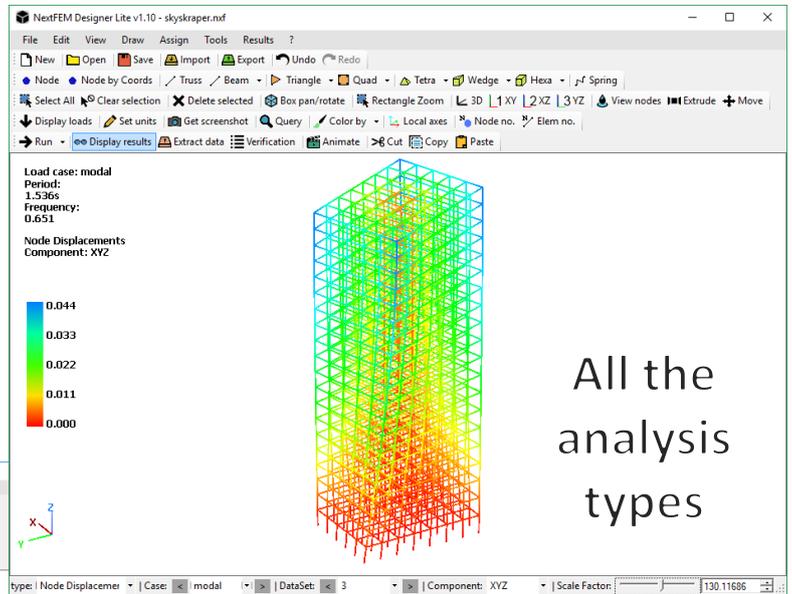
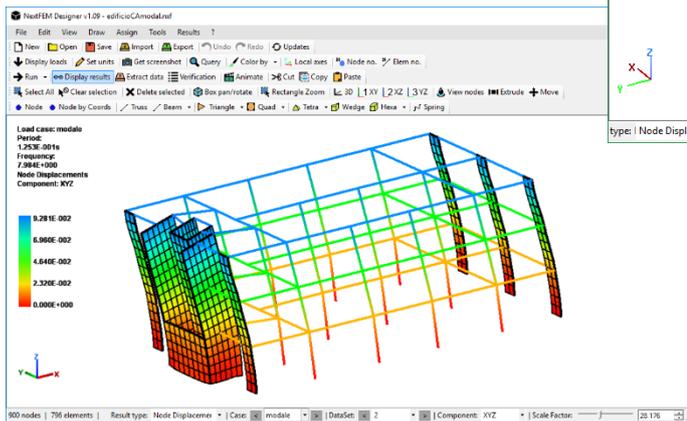


**NextFEM**  
FEA made easy

*NextFEM Designer  
Product features*

**NextFEM Designer** is a brand new program for Finite Element Analysis designed for structures. It supports linear static, modal, dynamic analyses with beams, trusses, shells with 3 and 4 nodes, solids. It can import pre-existing models from SAP2000, Midas GEN, Abaqus, CalculiX, DXF (geometry only), OpenSees and other formats. There's no limitation on the maximum node number.

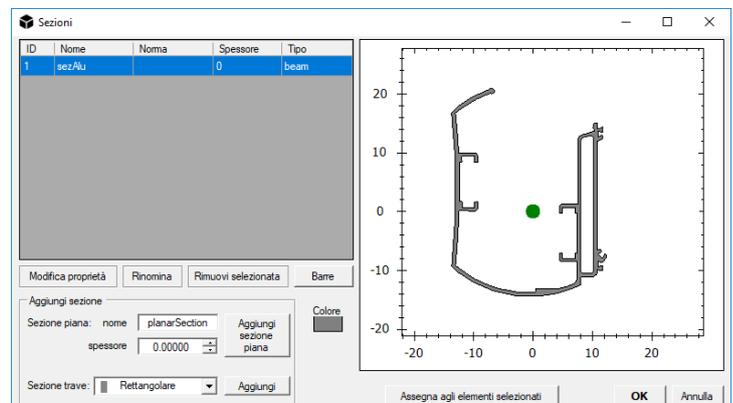


It can import pre-existing models from SAP2000, Midas GEN, Abaqus, CalculiX, DXF (geometry only), OpenSees and other formats. Also export is supported to many format, including BIM ones.

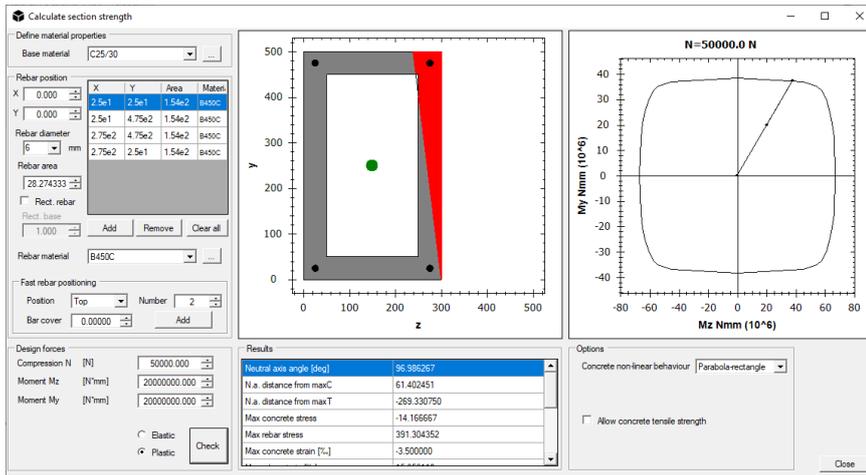


The **General Design** module activates in the program some advanced features such as:

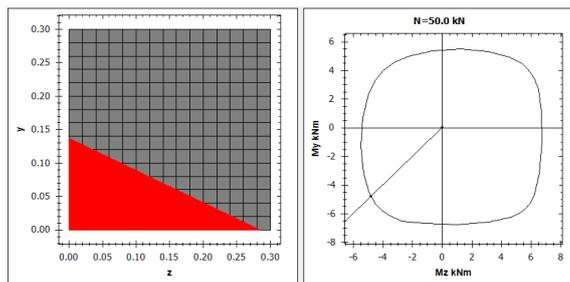
- ✓ automatic generation of load combinations as per NTC2008 and Eurocode 3 (EN 1993-1-1) for Ultimate and Serviceability Limit States;
- ✓ checking of steel members as per NTC2008 and Eurocode 3 (EN 1993-1-1);
- ✓ checking of timber frames as per Eurocode 5 (EN 1995-1-1);
- ✓ exporting the model to SAP2000®;
- ✓ exporting the wireframe or extruded model in DXF format;
- ✓ mesher for solid elements.



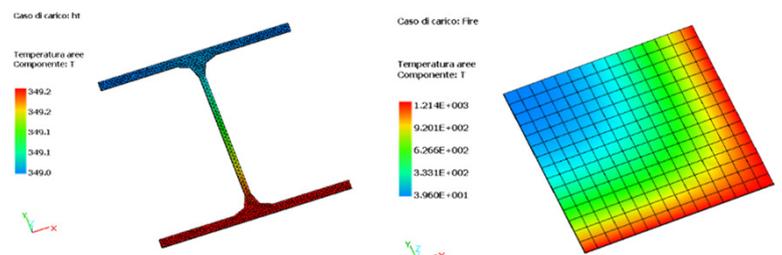
The **AluCheck module** enables the checking of aluminum alloy members as per Eurocode 9 (EN 1999-1-1) in general structures and also in scaffoldings/frameworks.



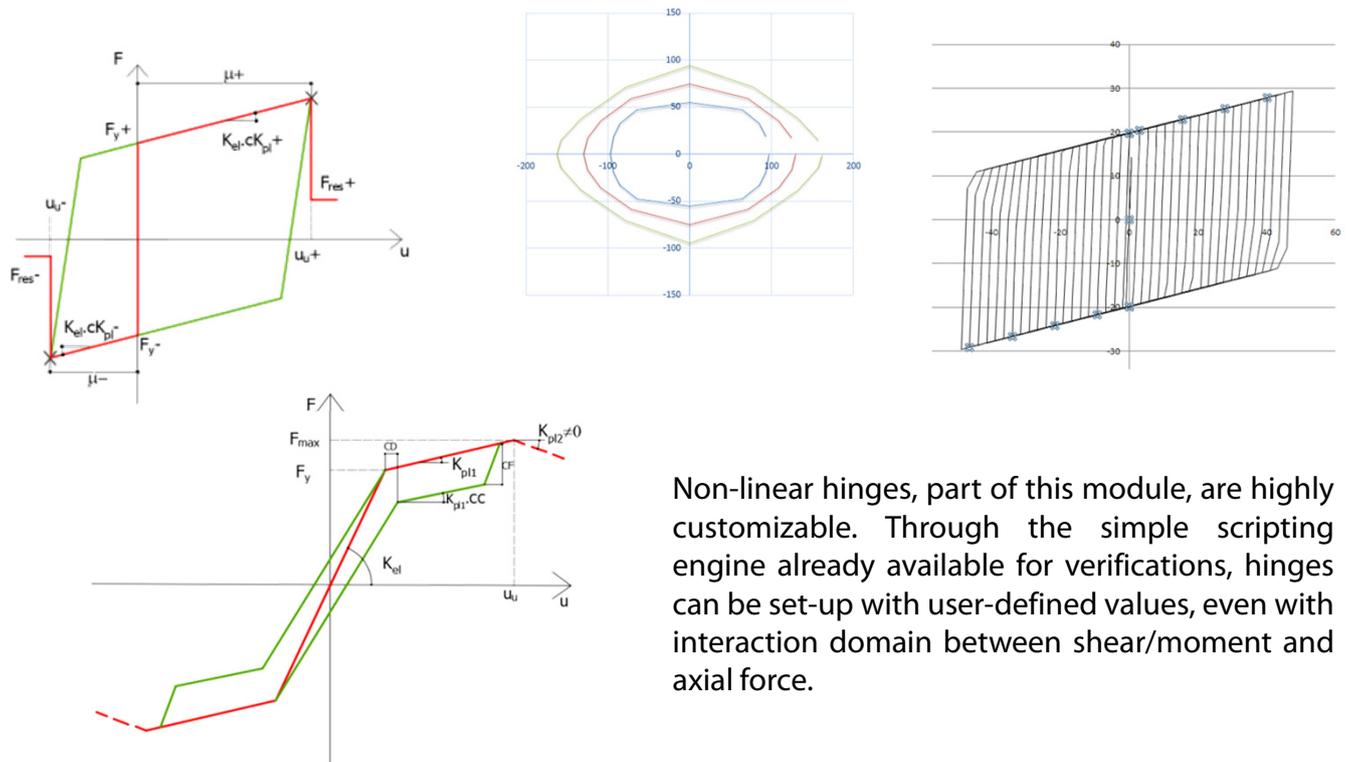
The **Concrete Module** allows to check all the Reinforced Concrete (RC) structures. Firstly, the cross-section calculator is able to calculate all the types of sections, no matter their shape or their base material. For RC sections, the program supports the Parabola-rectangle and the bi-linear non-linear laws, and can account for the concrete tensile strength.



Additionally, this module can perform a strength analysis during a thermal analysis of single section.



The **Non-Linear module** adds to the program a long series of non-linear elements and hinges, in order to perform static and dynamic analyses.



Non-linear hinges, part of this module, are highly customizable. Through the simple scripting engine already available for verifications, hinges can be set-up with user-defined values, even with interaction domain between shear/moment and axial force.

Installation tutorial and user manuals:  
<https://www.nextfem.it/it/help-support/>

Support forum:  
<https://www.nextfem.it/it/nextfem-designer-support-forum/>

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**NextFEM SRLS**

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