DIAMOND 2016

(SAFIR® post-processing tool)

New features
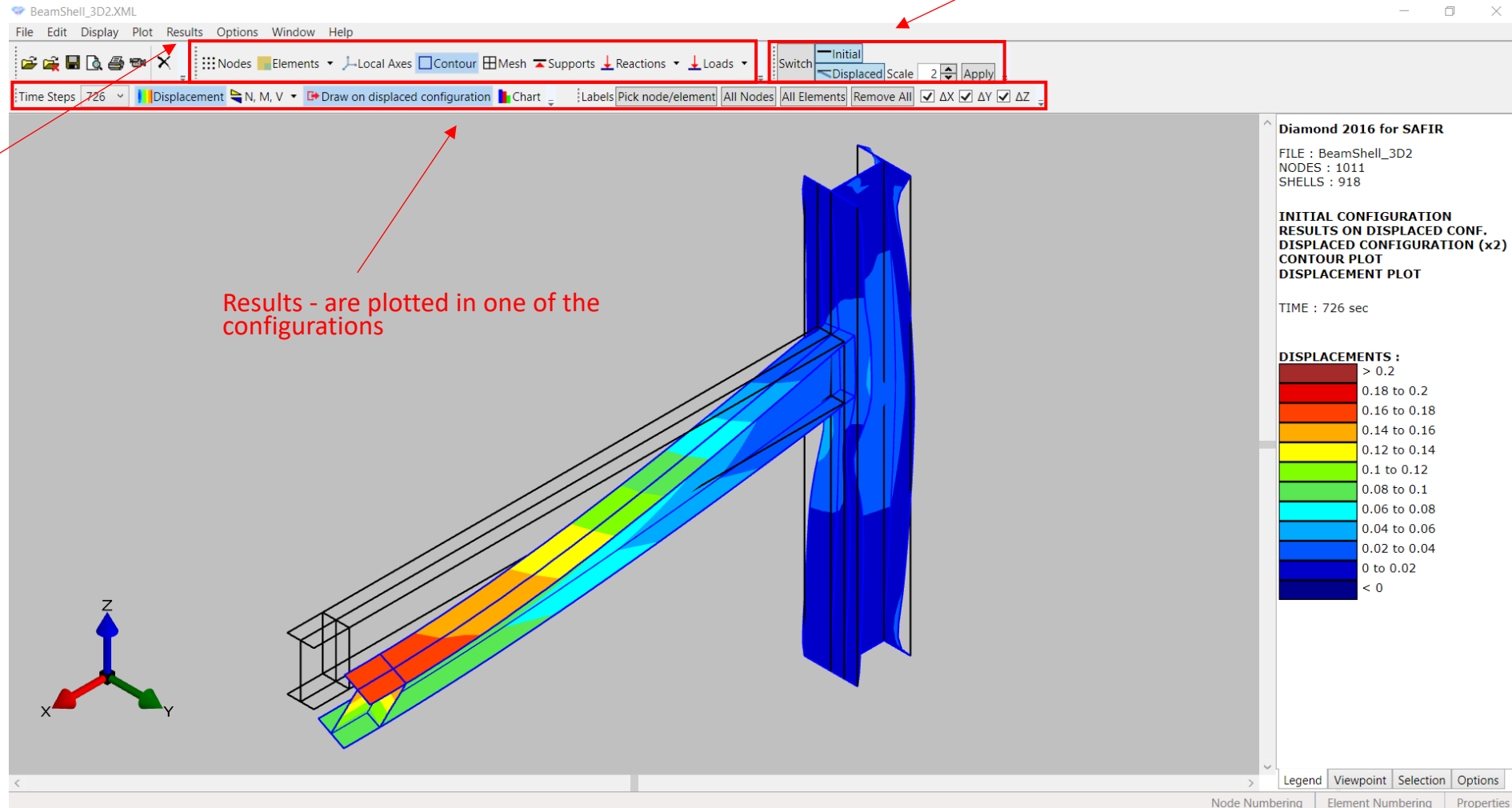
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Jean-Marc Franssen
Thomas Gernay

Organization of the graphical interface

- Some differences in the logic and arrangment of the GUI

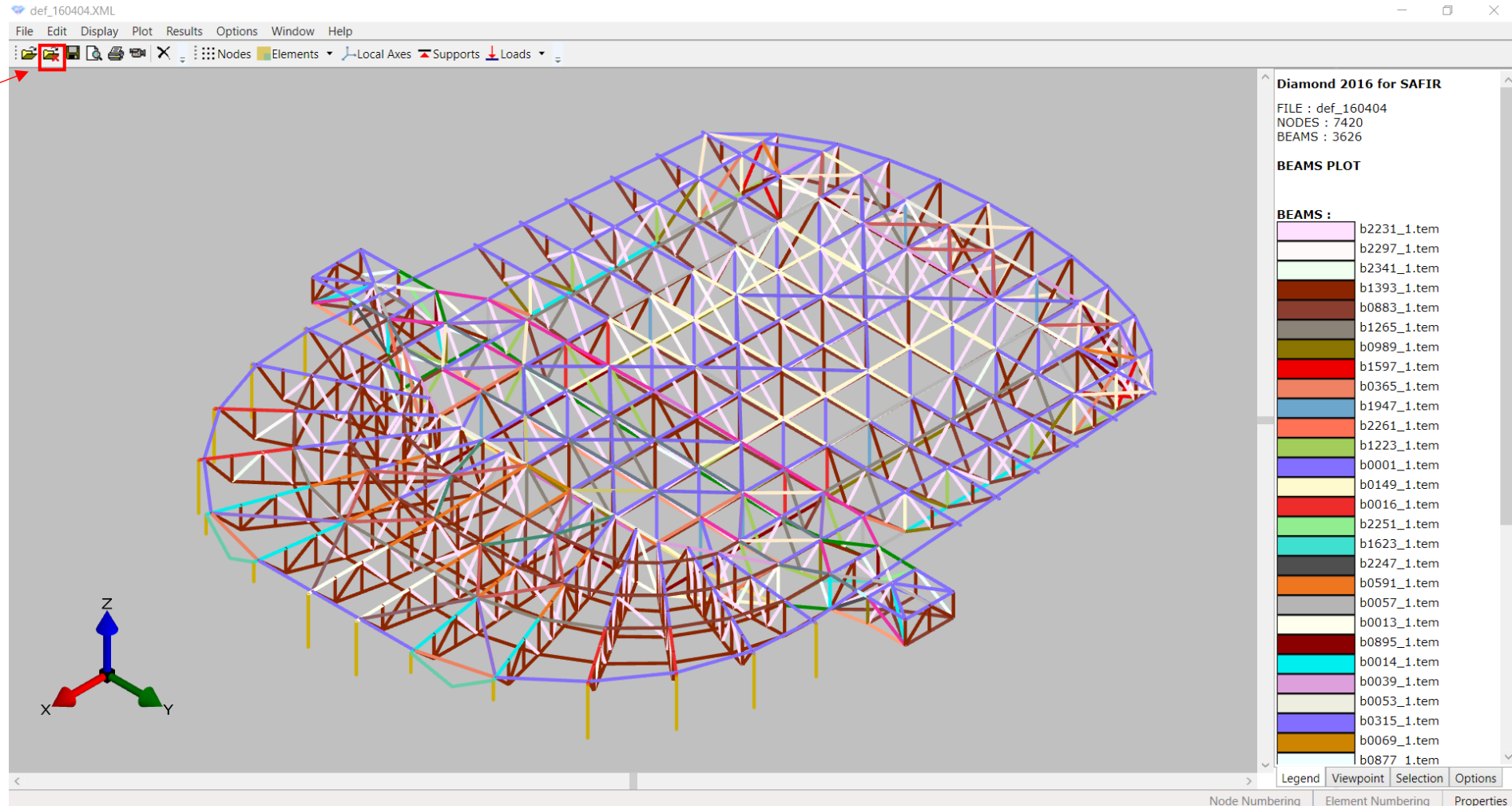Configuration - the model entities can be drawn in the initial, in the displaced, or in both configurations

Model entities

Results - are plotted in one of the configurations

Open file without results

- Allows to quickly check models in big files

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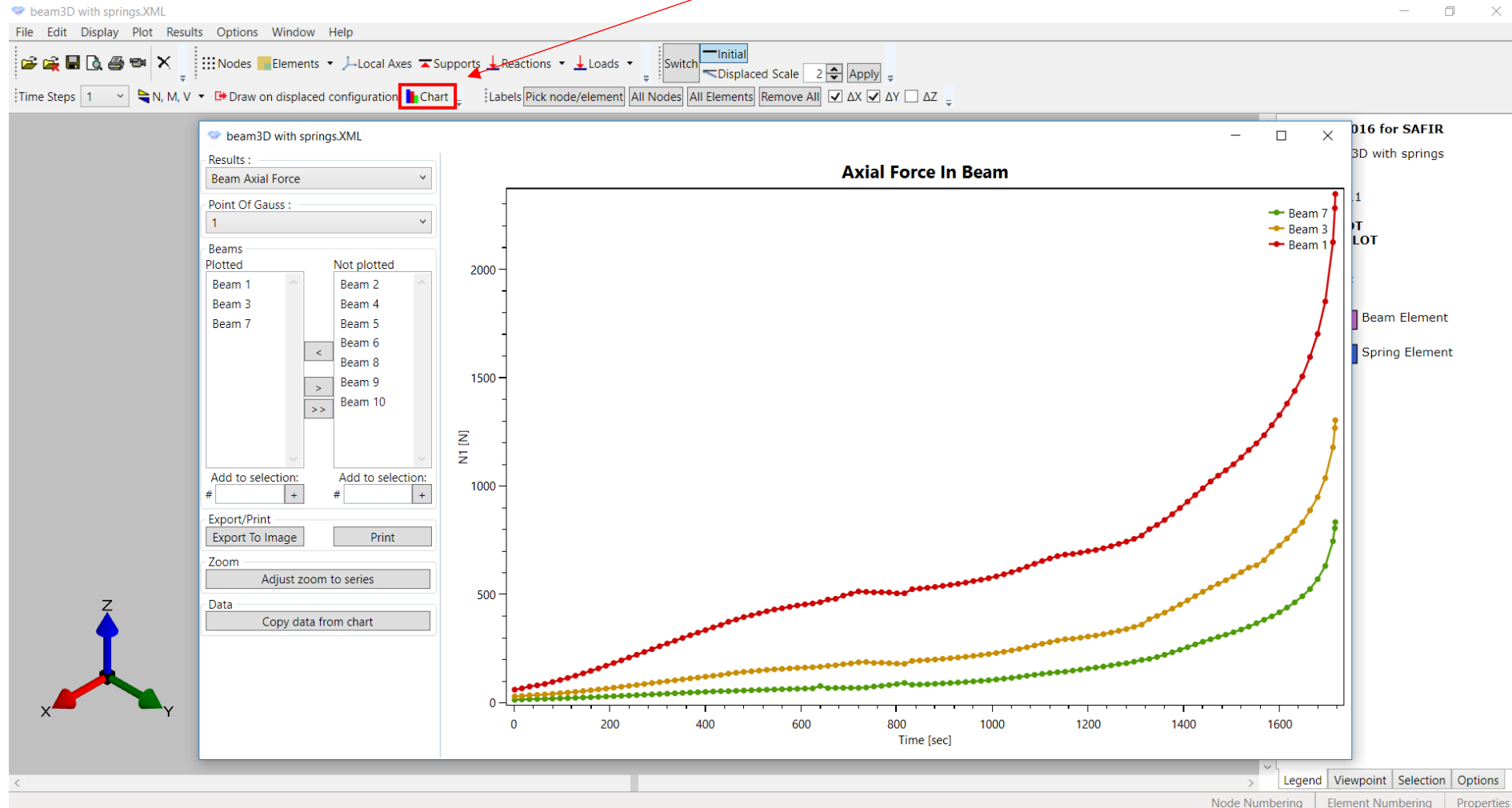João Ferreira | Jean-Marc Franssen | Thomas Gernay

Scale factors

- More clear way of setting the scale factors for loads and forces

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Charts

- Improved user experience with charts

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Torsional analysis

- Distribution of the results for the warping function in the cross-section

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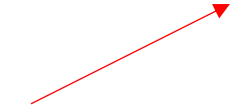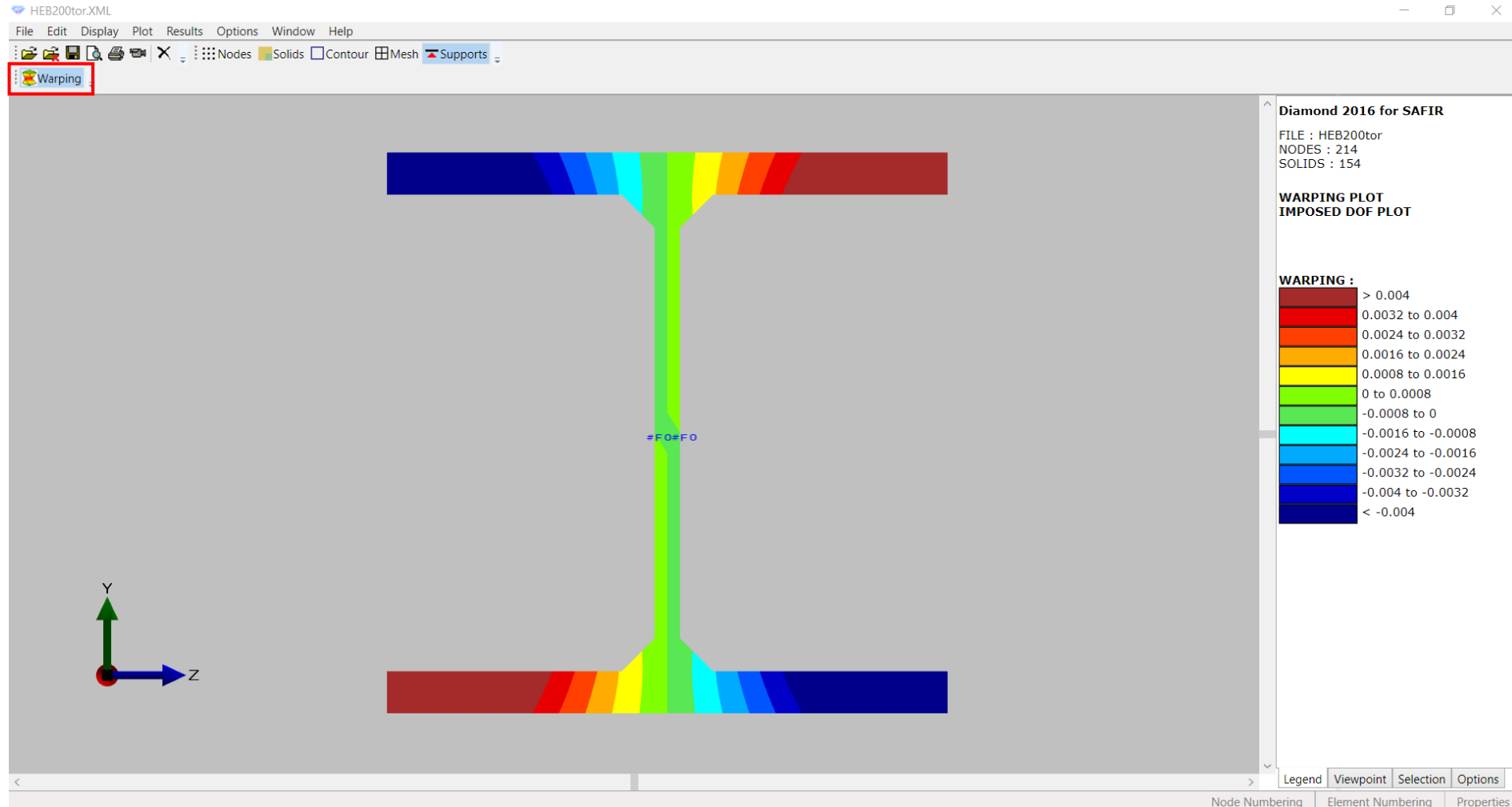
Springs

- Forces and pressures in Springs

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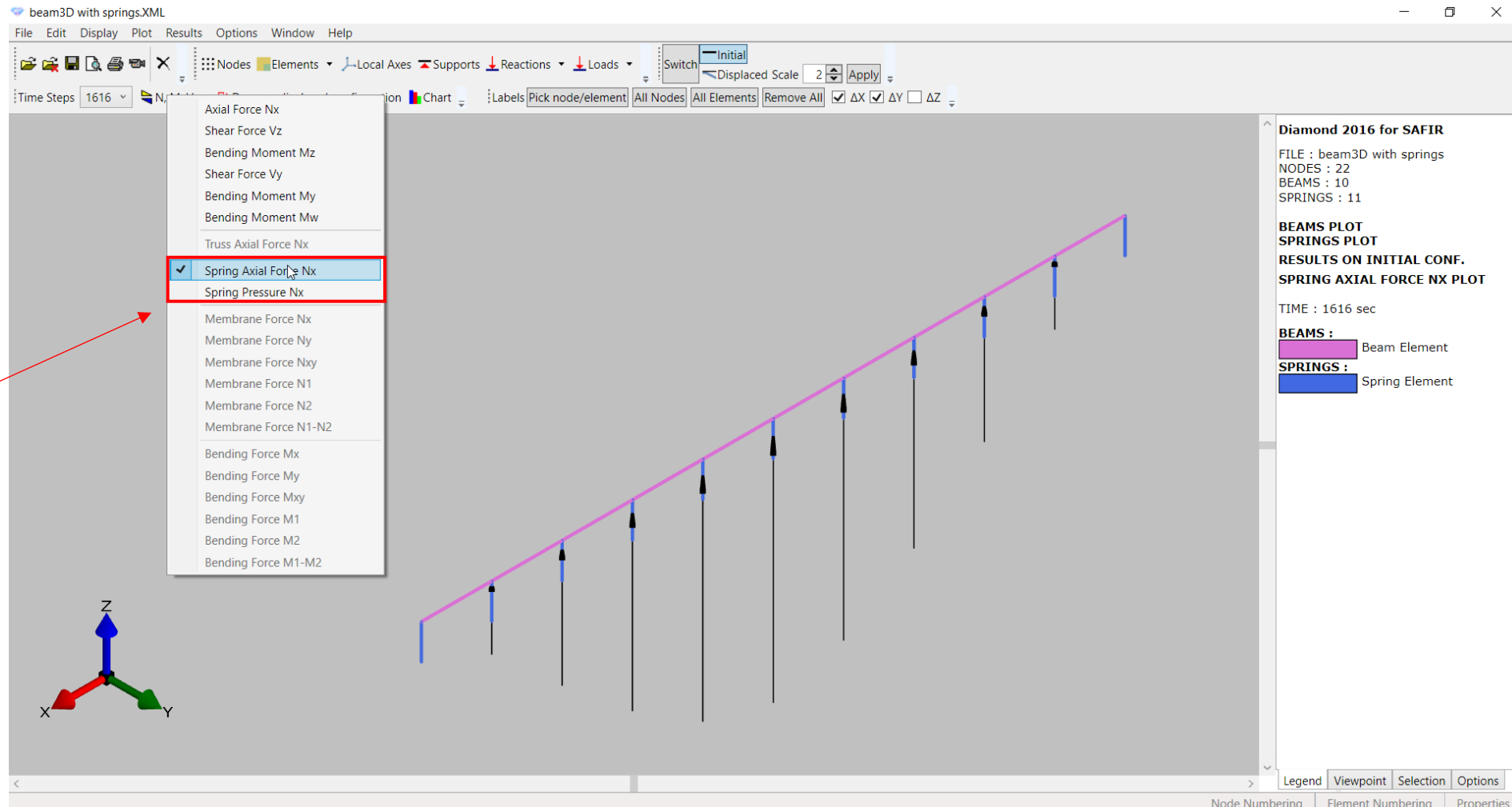
Strains, stresses and tangent modulus
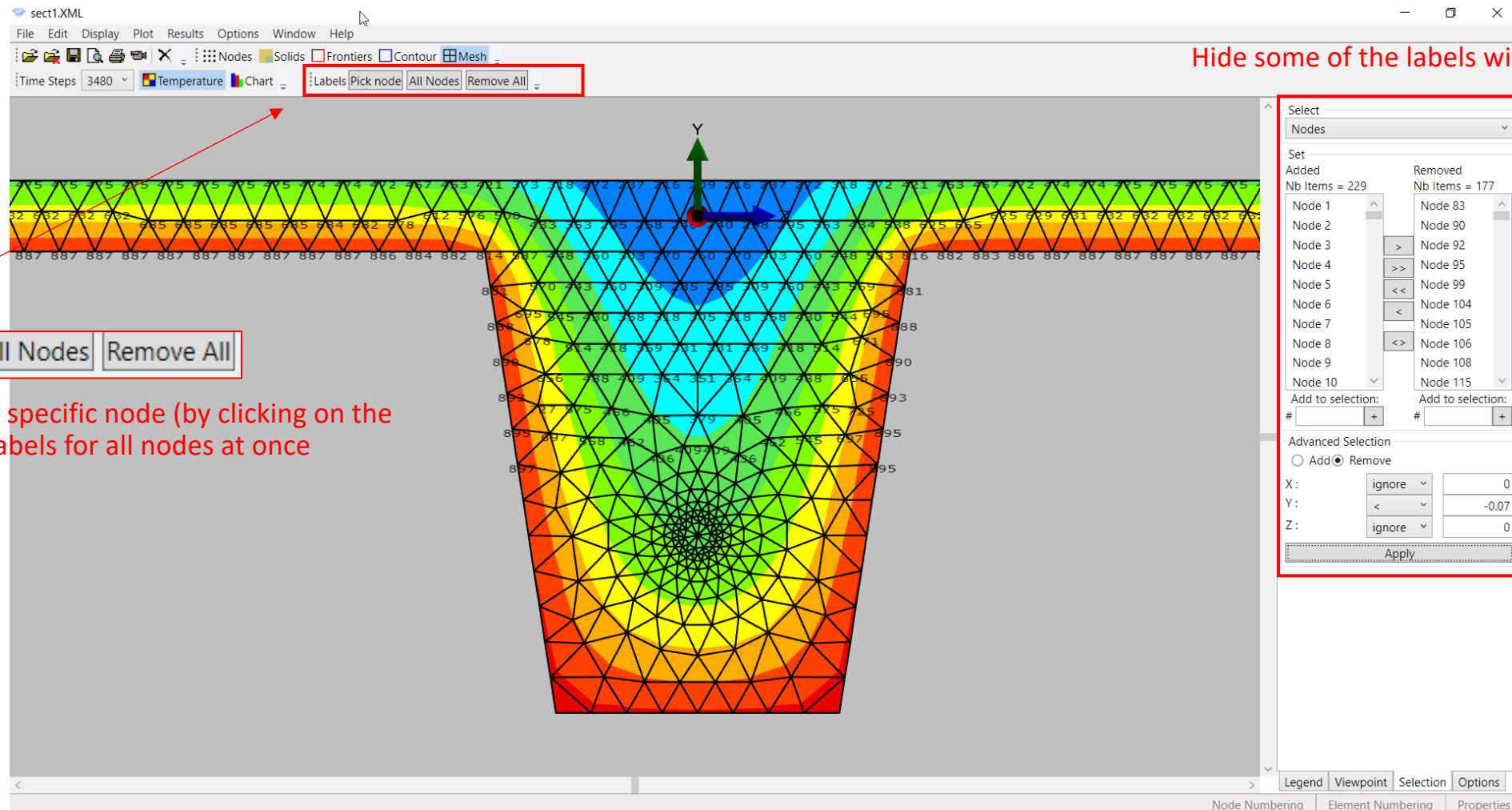
- Strains can now be plotted on the cross-section fibres
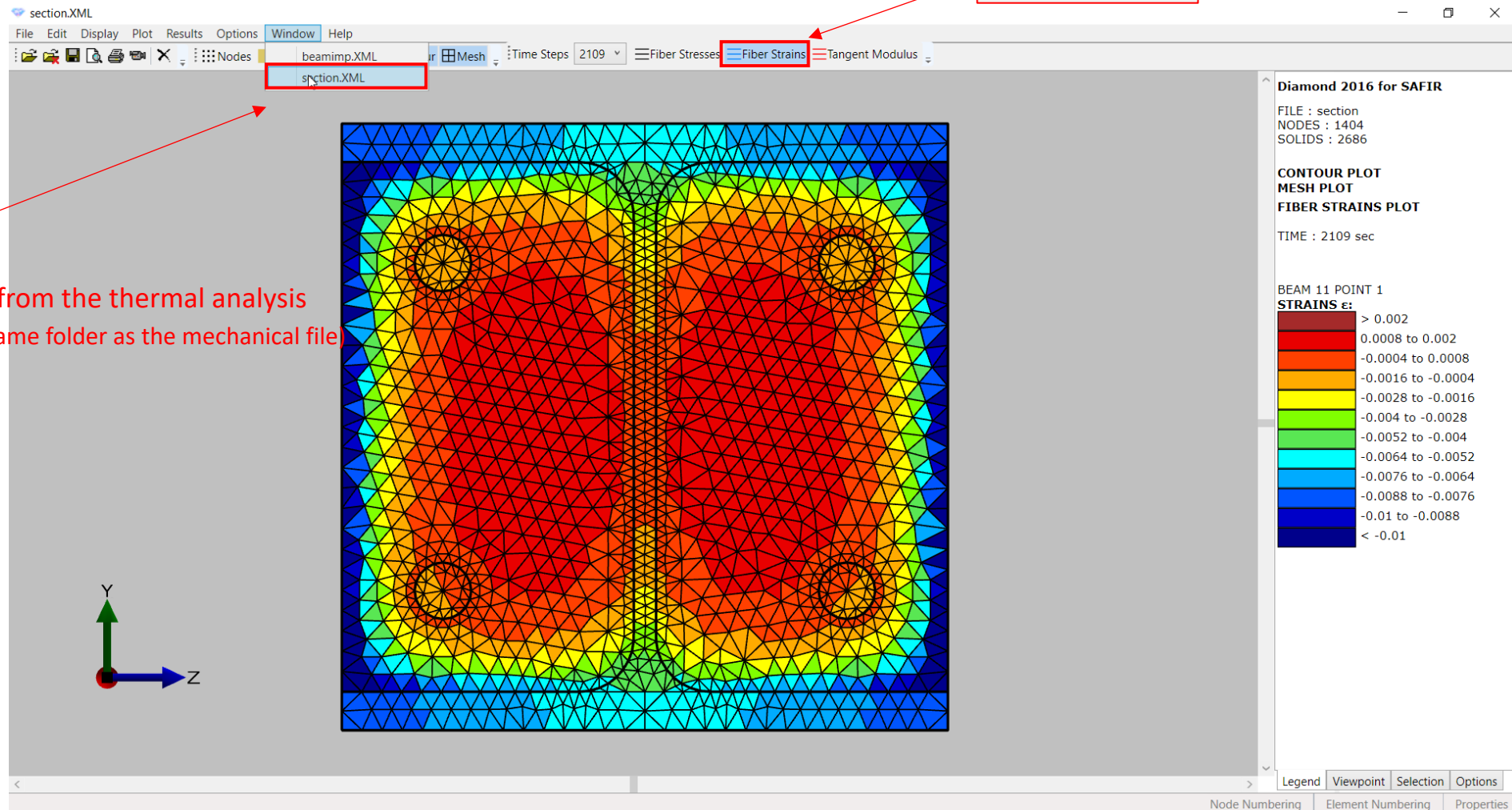
XML file resulting from the thermal analysis
(must be inside the same folder as the mechanical file)
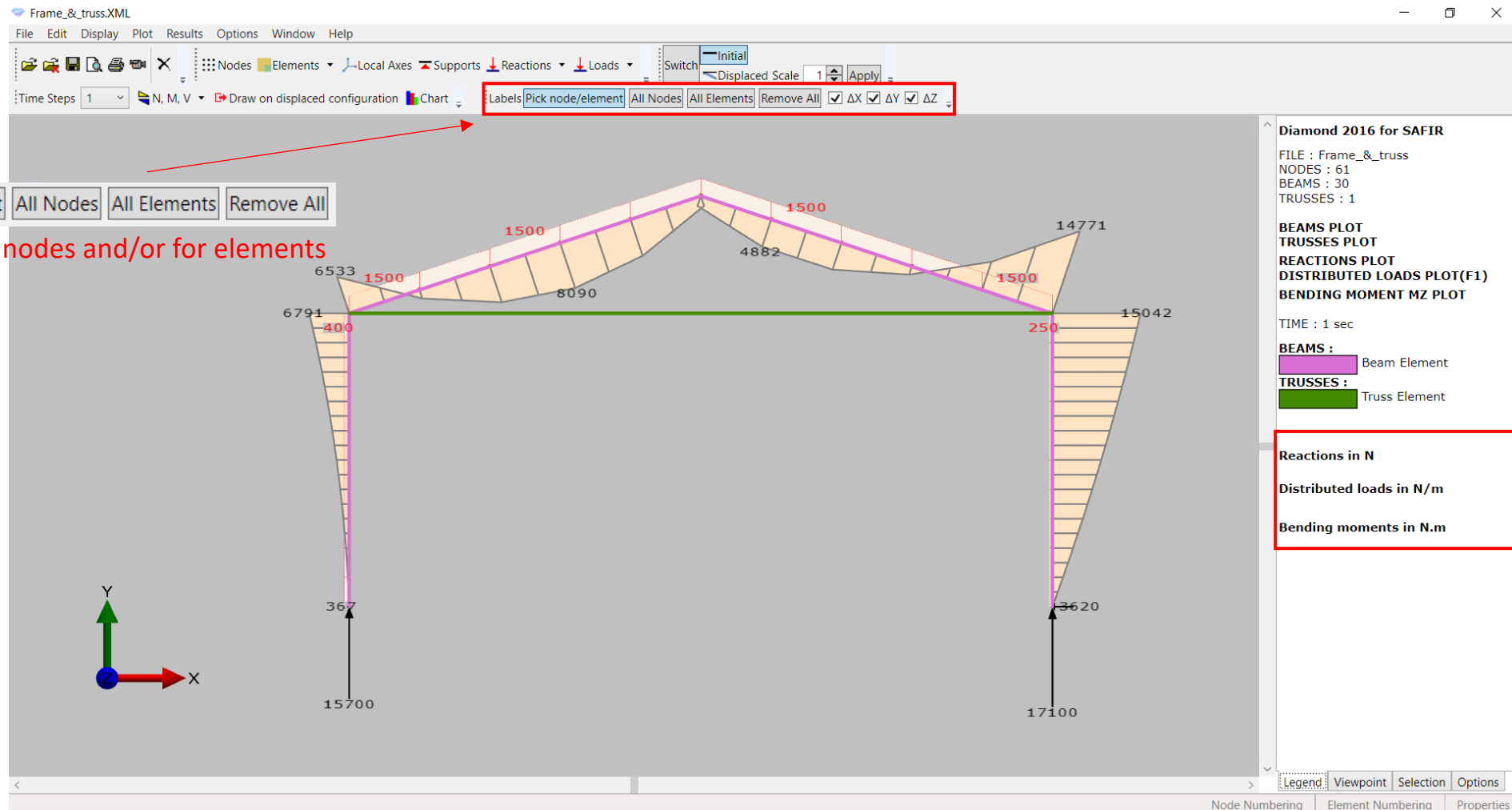
Labels in thermal analyses

- Temperatures

Hide some of the labels with the Selection tool

Add the label for a specific node (by clicking on the node) or add the labels for all nodes at once

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Labels in mechanical analyses

- Loads, reactions and forces

Labels | Pick node/element | All Nodes | All Elements | Remove All

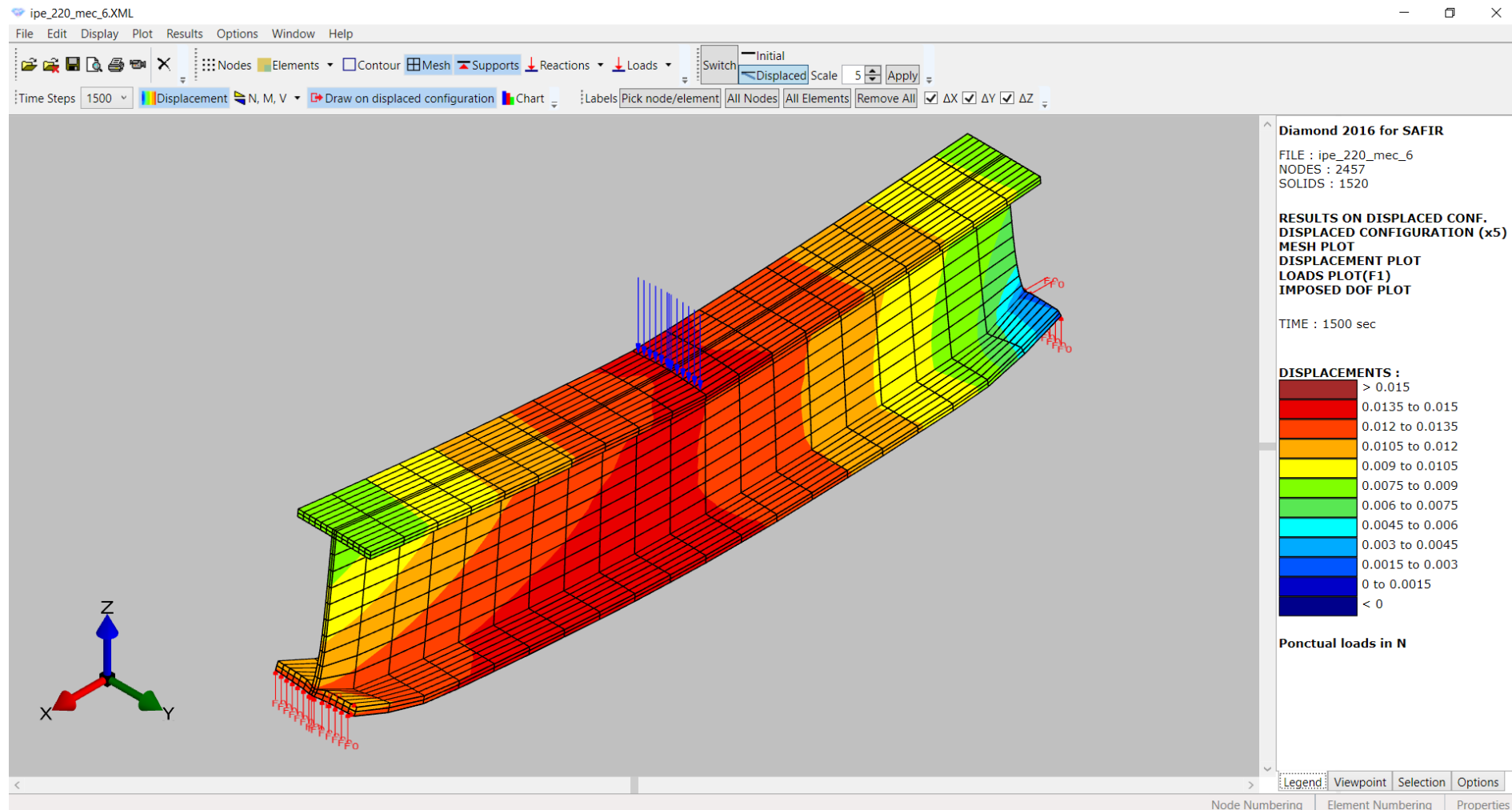Add the labels for nodes and/or for elements

Units

Reactions in N

Distributed loads in N/m

Bending moments in N.m

Labels in mechanical analyses

- Displacements

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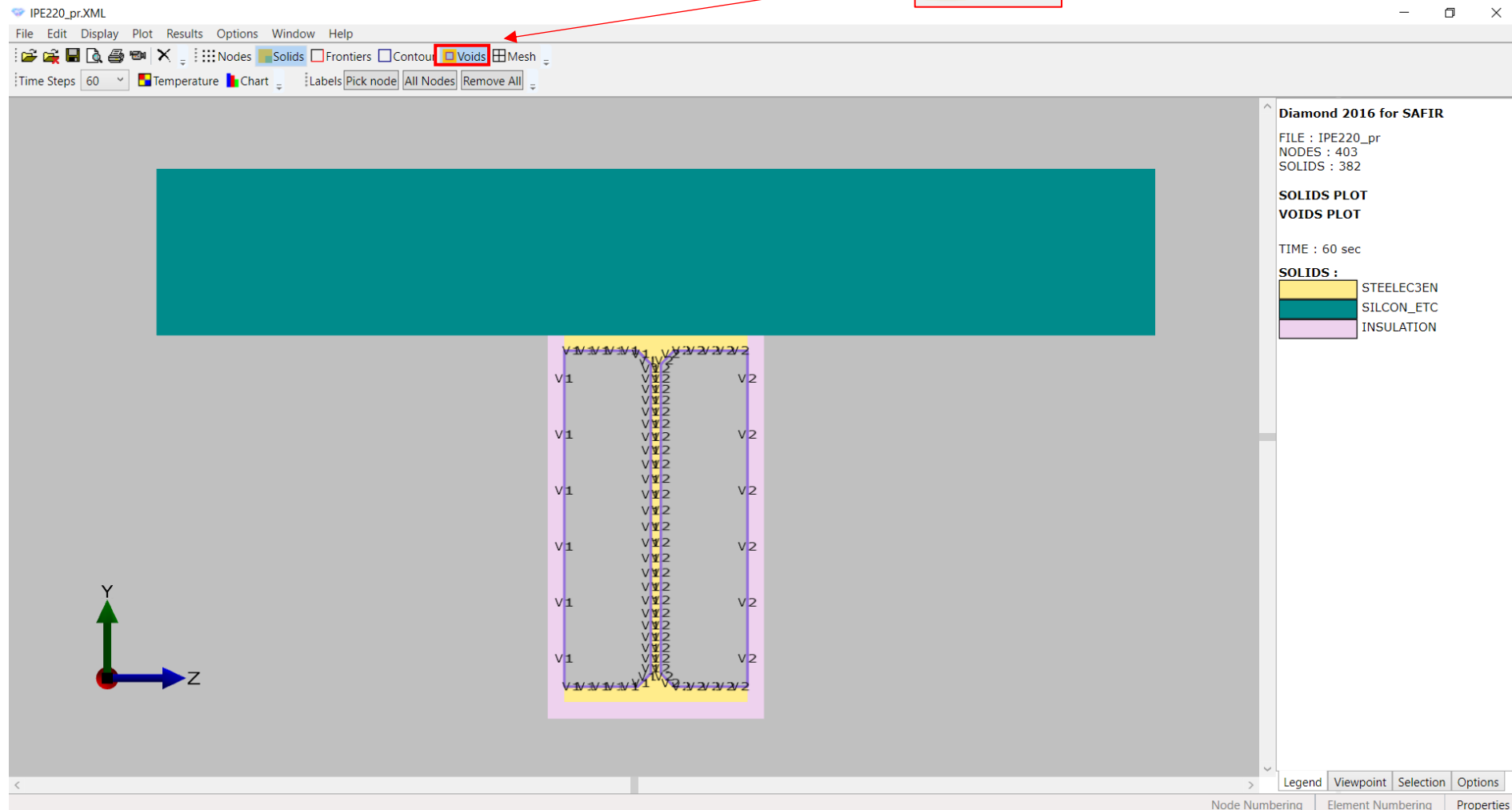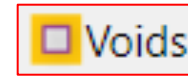João Ferreira | Jean-Marc Franssen | Thomas Gernay

Structural SOLID 3D

- SOLID 3D finite elements available in mechanical models

VOID

- VOIDs in thermal models can now be visualized
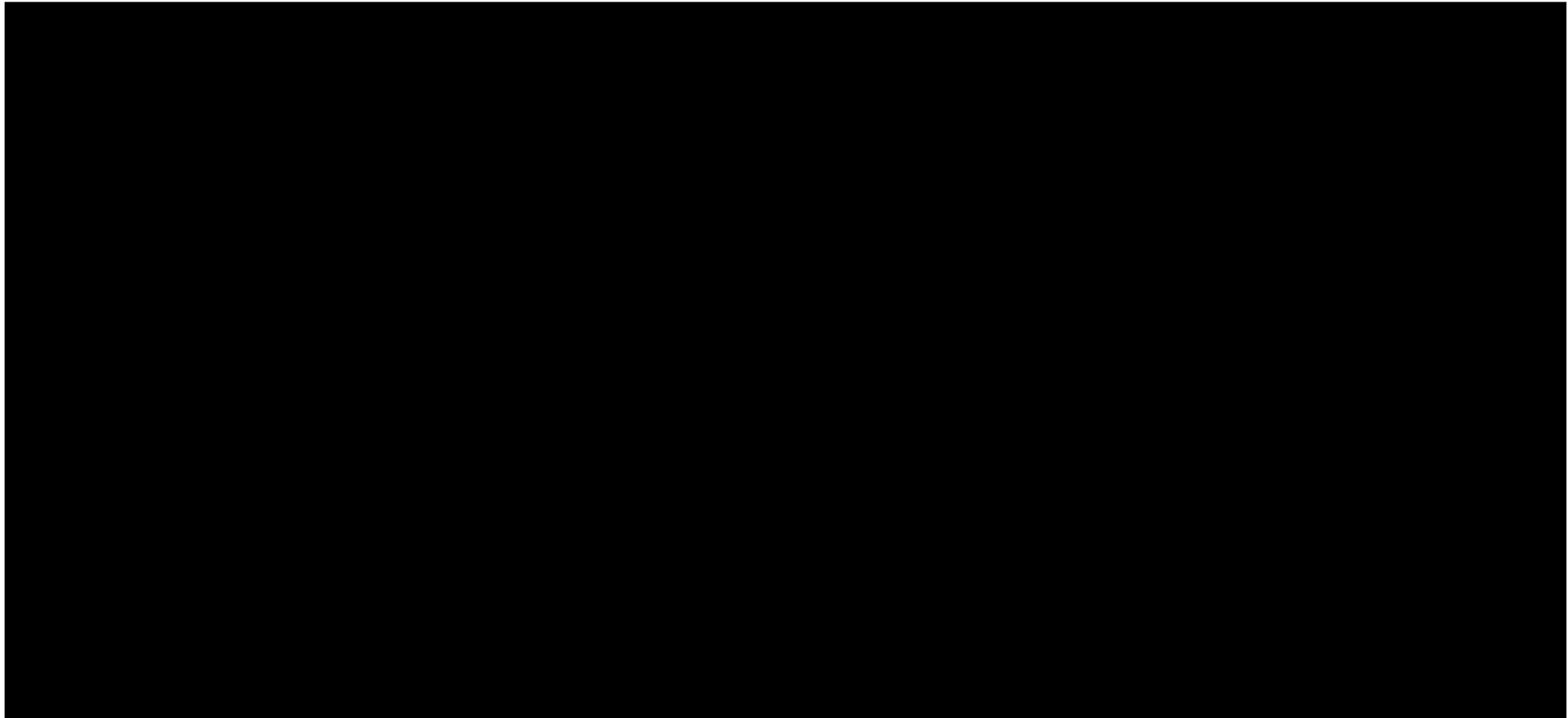
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Animation tool

- Time interval for the video animation

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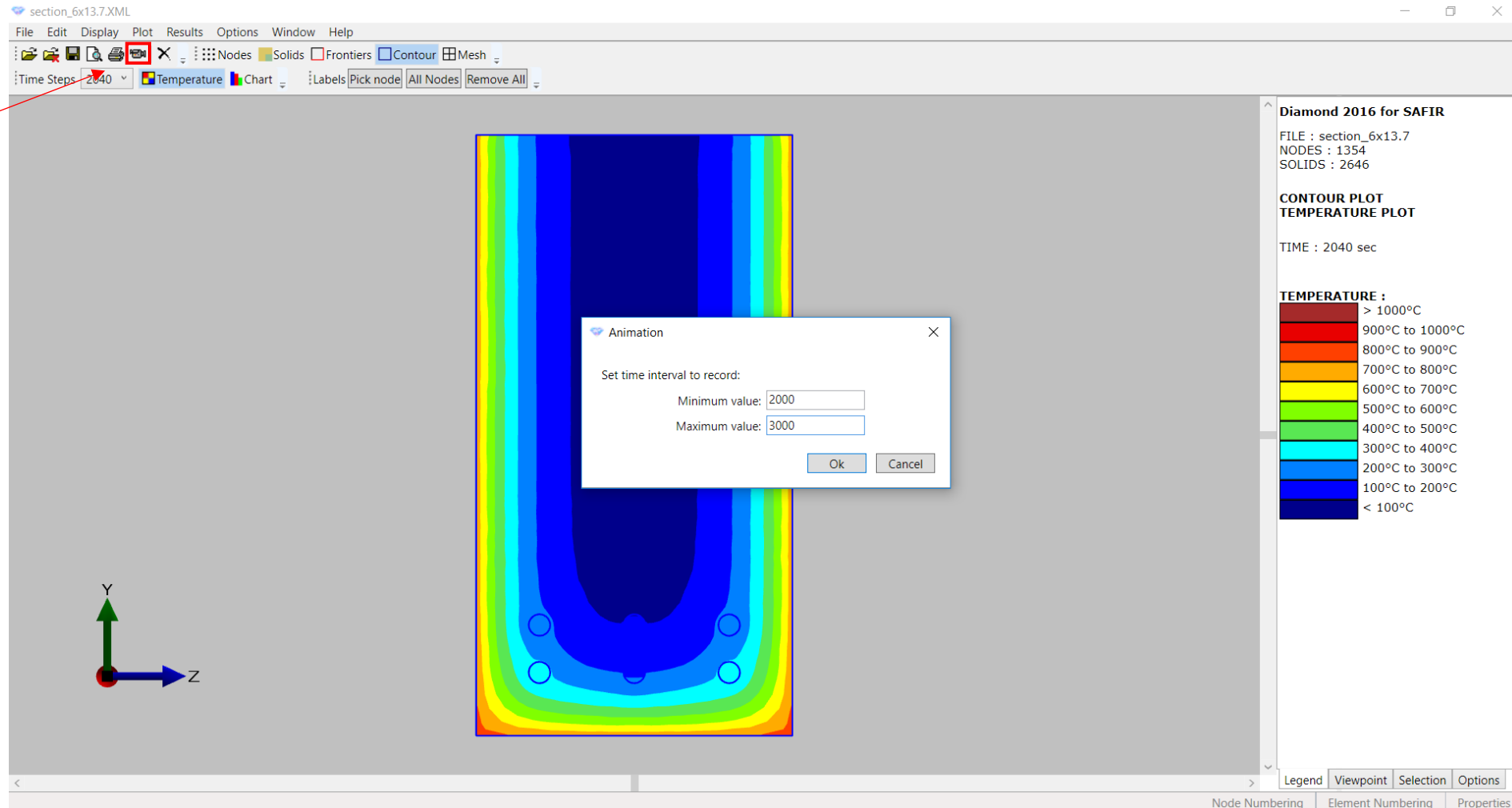
Animation tool

- Time interval for the video animation

Thank you for you attention

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New features

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