



CIVILFEM 2021 Powered by Marc RELEASE NOTES:

Main IMPROVEMENTS

General tools

1. Go to entities for referenced geometries. Easier use to move between the geometry on the properties view bar.
2. Elements edge thickness is editable from the view menu.

Pre-processing

1. Import geometry from IFC (Industry Foundation Classes).
2. Section boolean operation. Obtains the common edges between geometries.
3. Automatic congruent meshing. Detection of common curves and application of automatic local controls for the meshing of structural elements.
4. Stress-Strain law for structural material properties at elevated temperature according EN 1994-1-2.

Solution process

1. Activation and deactivation of springs for construction process analysis.
2. New thermal-structural strong coupled analysis.
3. Temperature dependence for cracking stress.

Post-processing

1. Solid section results (forces and moments calculation) for solids 2D.
2. Python command to obtain nodal masses.
3. User Design Stress-Strain laws for structural materials.