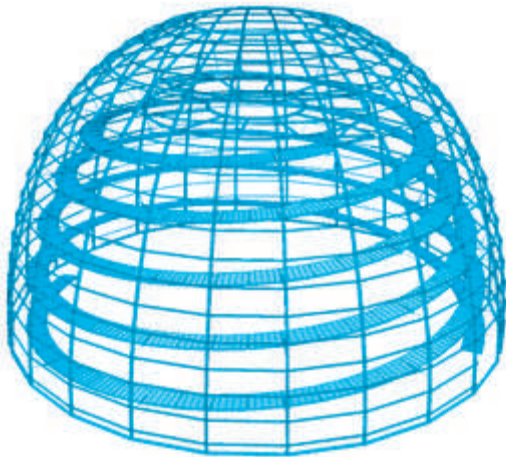


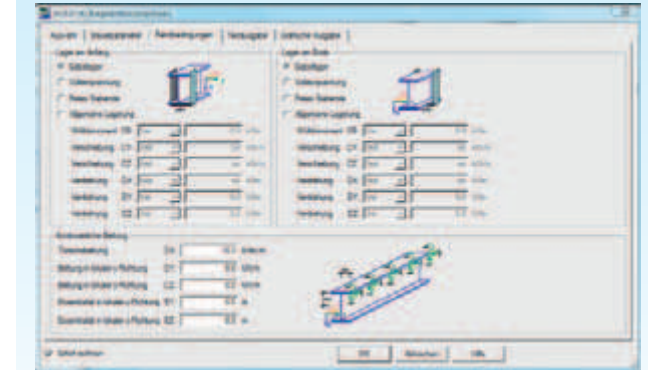
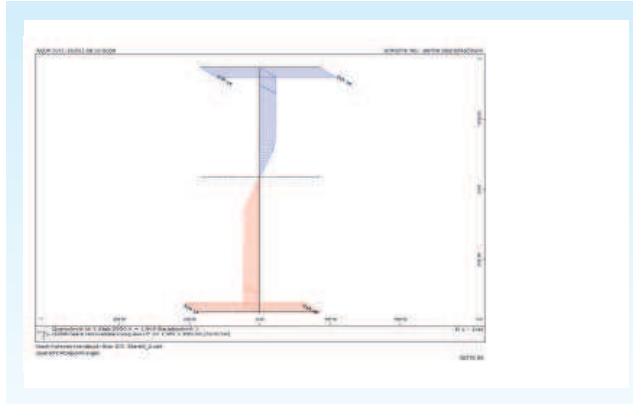
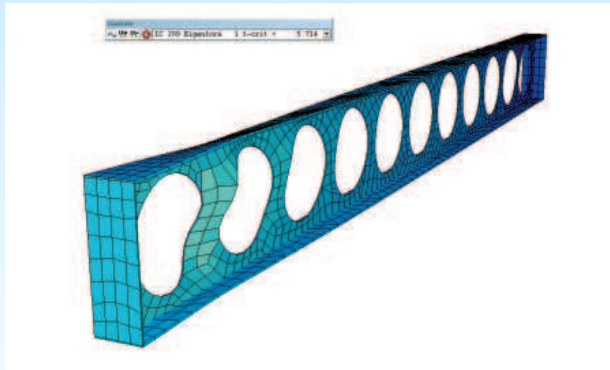
# Steel Design

The SOFiSTiK modules ASE, STAR and DYNA offer powerful tools for analysis and design of complex steel design problems. Besides the possibility to analyze acc. to 3rd order theory the programs offer nonlinear material models for metallic materials. The applied elasto-plastic-zone theory is based on the interaction of all internal forces and moments.



## Features

- 3D-Truss and cable structures, 3D-folded structures
- Volume elements
- 1st, 2nd and 3rd order theory
- Primary load cases for construction stages
- Checks: E-E, E-P, P-P
- Elasto-plastic zones, plastic hinges
- Implicit beam hinges (ASE)
- Profile library
- User-defined sections
- Composite sections
- Elastic and plastic buckling
- Eigenvalues
- Uniform/ lateral torsional buckling
- Profile optimization
- Warping stress
- Buckling of shells and slabs
- User-defined stress-strain for springs and steel-material
- Multi-layered shell element
- Non-linear dynamics
- Non-linear springs
- Interfaces: FEMAP, SteelCON, AutoCAD, SOFiCAD-S, IFC Structural Analysis View
- SteelCON – Connection design



## Design Codes

- DIN 18800
- EC 3/4/9
- ÖNorm B4300
- SIA 263
- BS 5950
- US AISC
- AS 4100
- NS 3472

