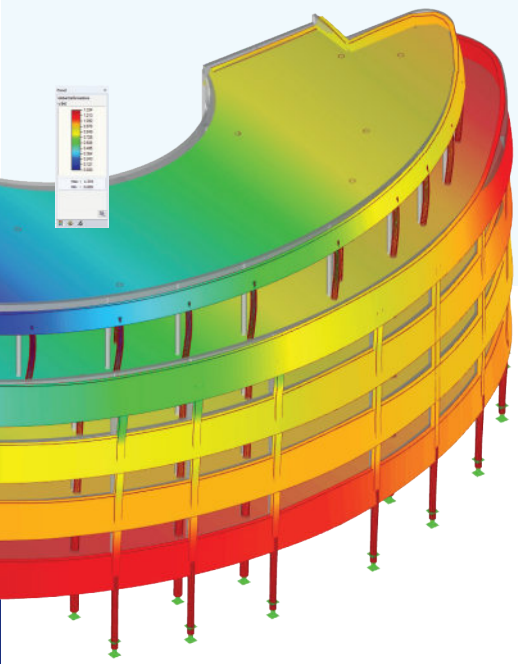


RFEM 5

Powerful, Easy, and Intuitive

Enjoy Structural Analysis

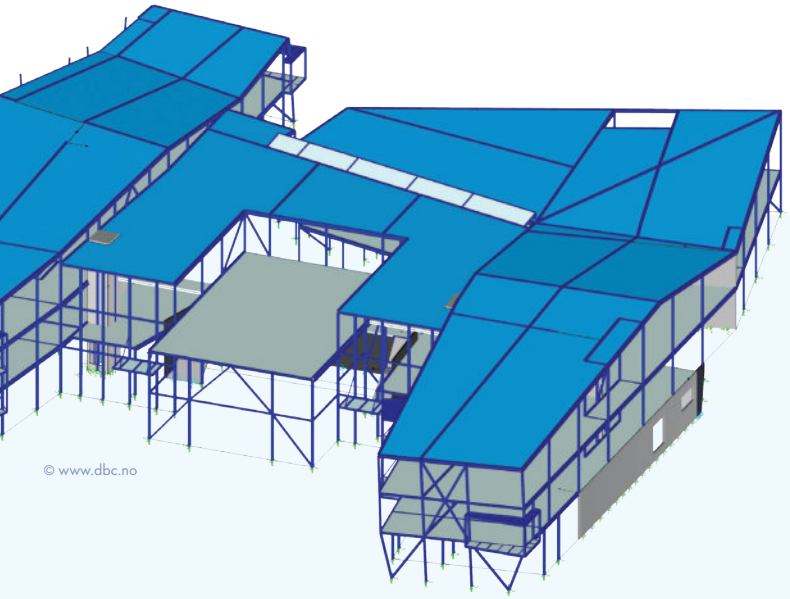
3D Finite Element Analysis Software for All Industries

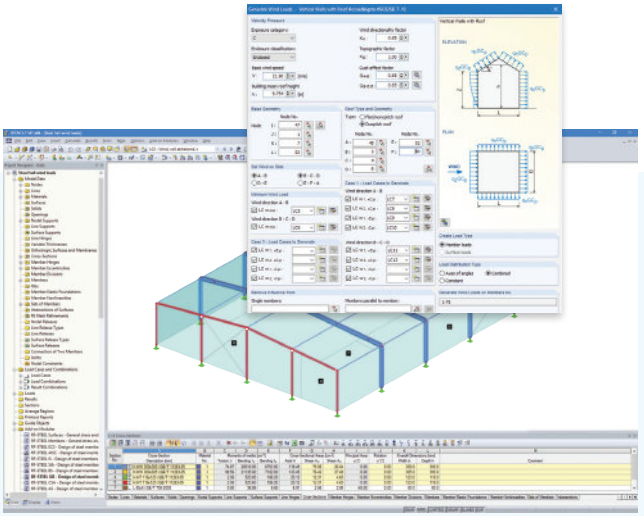
Dlubal

Software for Structural and Dynamic Analysis

- Concrete structures
- Steel structures
- Timber structures
- Aluminum structures
- Glass structures
- Tensile membrane structures
- Laminate structures
- Dynamic analysis
- Bridges
- Power plants
- Tanks and silos
- Piping systems
- Mechanical engineering
- Industrial engineering

RFEM - Powerful & Intuitive 3D FEA Software



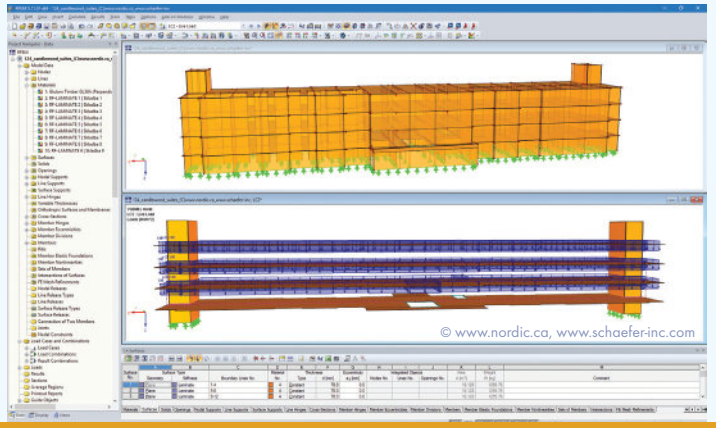


Universally Applicable

- Structural analysis of structures consisting of steel, concrete, timber, CLT, aluminum, glass, or combined materials
- Current USA, Canada, and international design standards
- Static and dynamic analysis
- Linear and nonlinear analysis

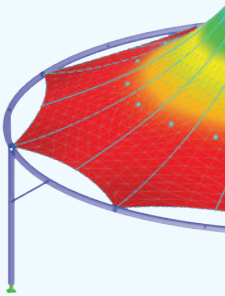
Useful Generation Tools

- Structure generators including loads (e.g. continuous beams, frames, 3D halls)
- Wind and snow load generators according to the USA and other international standards
- Parametric input of frequently recurring systems



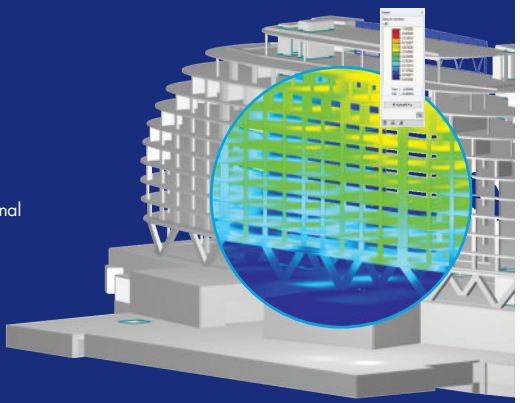
Intuitive Graphical User Interface

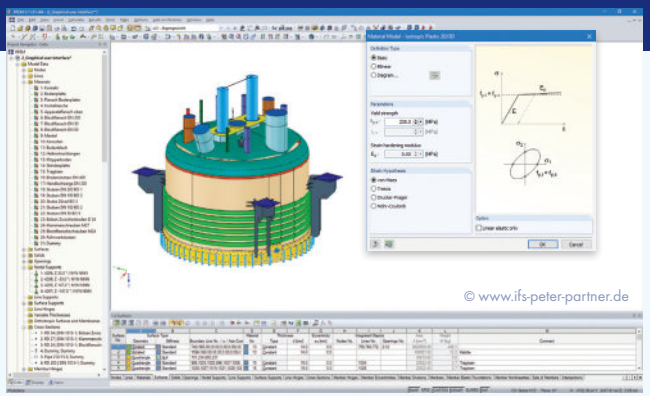
- Quick induction into the software
- Quick and efficient structure and load data input
- Graphical or tabular model input
- Direct import/export of data tables to Microsoft Excel
- High-quality visualization of the structure and loads



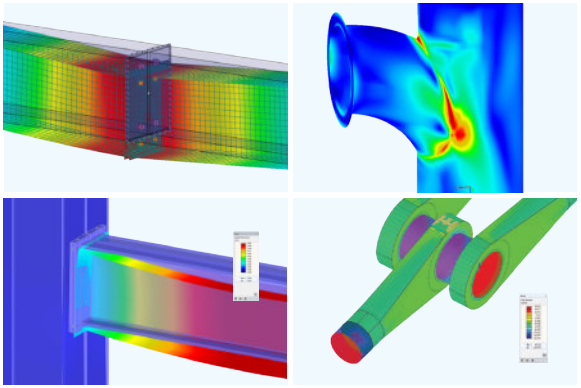
Dynamic Analysis

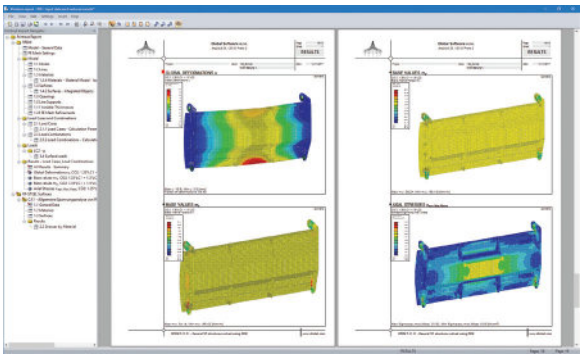
- Analysis of natural frequencies
- Seismic design according to USA, Canada, and international standards
- Linear and nonlinear time history analysis
- Multi-modal response spectrum method





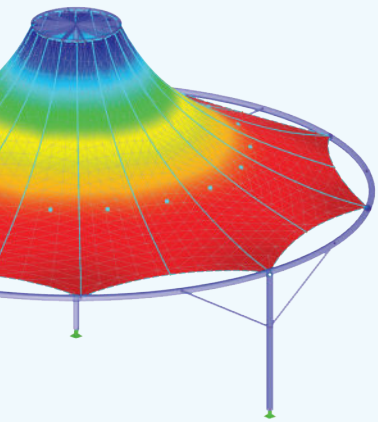
Surfaces and Solids





Modeling Supporting Structures

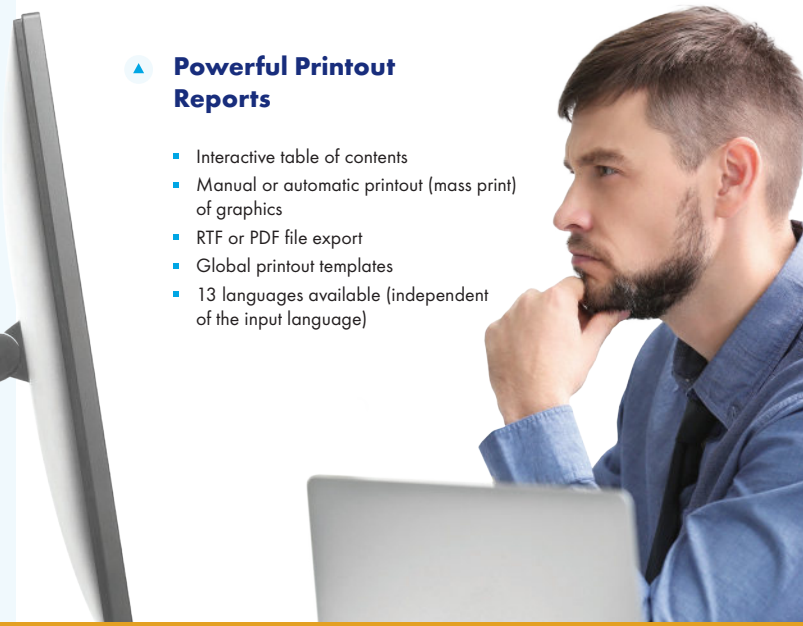
- Member, surface, and solid elements
- Support, member, and release nonlinearities
- Couplings and eccentricities for members and surfaces
- Nonlinear material models (plastic, thermal-elastic, etc.)



Form-Finding and Generation of Cutting Patterns for Membrane Structures

Powerful Printout Reports

- Interactive table of contents
- Manual or automatic printout (mass print) of graphics
- RTF or PDF file export
- Global printout templates
- 13 languages available (independent of the input language)

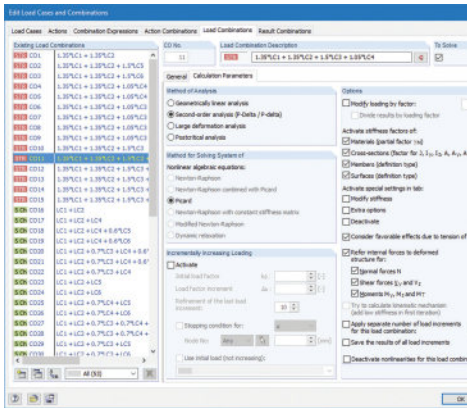


Multiple Member and Surface Types

Member Type	Surface Type
Beam	Standard
Rigid	No membrane tension
Rib	Orthotropic
Truss	Glass
Tension	Laminate
Compression	Rigid
Buckling	Membrane
Cable	Membrane - Orthotropic
Cable on Pulleys	Null
Result Beam	
Definable Stiffness	
Coupling Rigid-Rigid	
etc.	

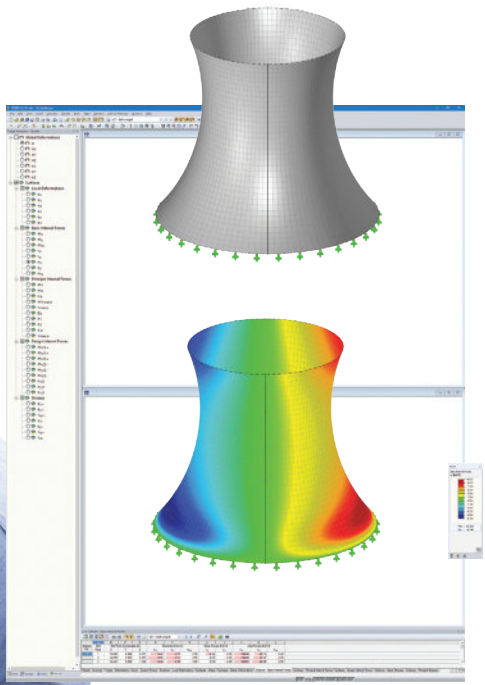
Automatic Generation of Combinations According to Selected Combination Expressions

- Combinations according to USA, Canada, and other international standards
- Options to reduce the number of generated combinations
- Copying, adding, etc. load cases in a clearly arranged dialog box
- Enveloped result combinations with max/min values



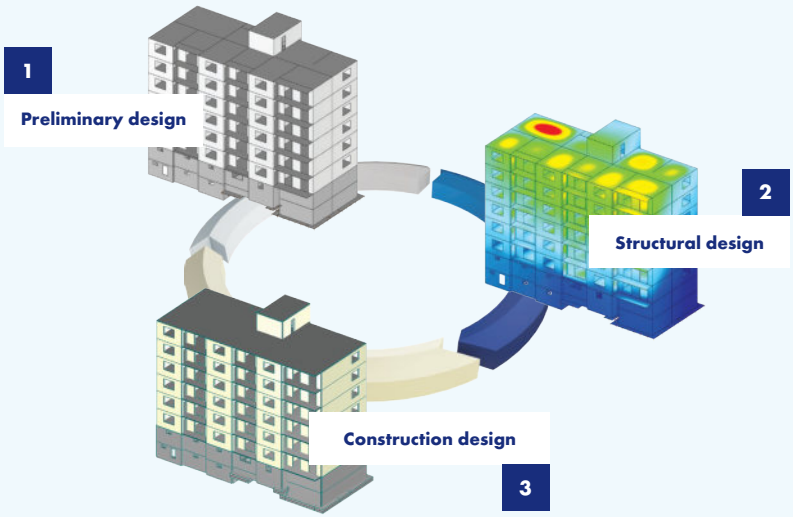
Colored Result Display on Rendered Model

- Freely adjustable range of values
- Animation of deformations, surface stresses, and internal forces
- Adjustable font sizes and colors



Building Information Modeling (BIM)

- Direct interfaces with Autodesk Revit, Tekla Structures, and Autodesk AutoCAD
- Other exchange formats: DXF, IFC, STP (e.g. for Intergraph, Advance Steel, SEMA, cadwork, hsbcad), and DSTV (e.g. for Bocad and Frilo)



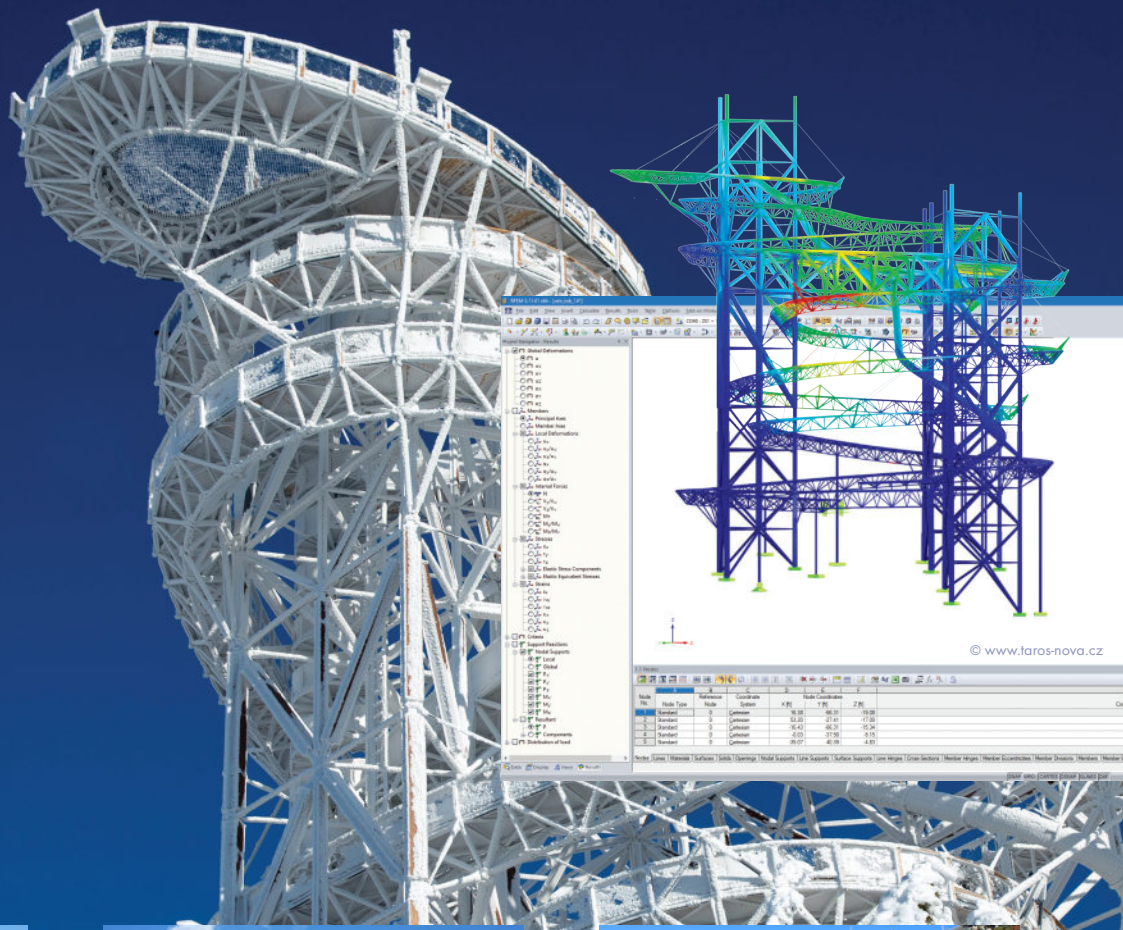
AUTODESK ADVANCE STEEL · AUTODESK REVIT · AUTODESK AUTOCAD · Tekla Structures · Bentley · Deutscher Stahlbau-Verband DSTV · INTERGRAPH · Rhinoceros · cadwork · SEMA · AVEVA

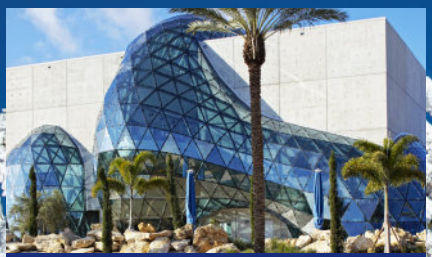
About RFEM

The 3D FEA structural analysis software RFEM is the basis of a modular software system.
The main program RFEM is used to define structures, materials, and loads for planar and spatial structural systems consisting of plates, walls, shells and members. The program also allows you to create combined structures including solid and contact elements. The structure and load generators integrated in the program can be used for expedited data input.

RFEM calculates deformations, internal forces, stresses, support forces, and soil contact stresses while the diverse add-on modules provide design of plate and beam structures including connections according to various standards.

The modular software concept allows you to create a program package tailored to your individual needs. It is possible to add on to your existing RFEM program at any time.

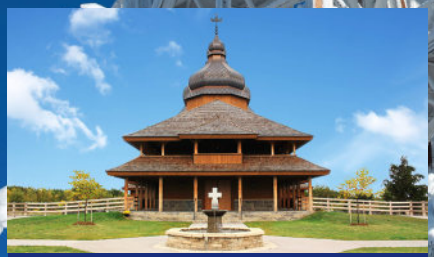




Salvador Dalí Museum

Customer: Novum Structures LLC
Menomonee Falls, WI, USA

© www.novumstructures.com



St. Elias Ukrainian Catholic Church

Customer: Moses Structural Engineers Inc.
Toronto, ON, Canada

© www.mosesstructures.com

Candlewood Suites on Redstone Arsenal

Customer: Nordic Structures
Montreal, QC, Canada

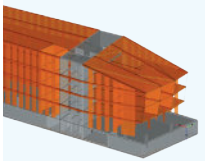
© www.nordic.ca, © www.schaefer-inc.com

Enjoy Structural Analysis with Dlubal Software

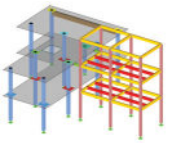
In addition to our user-friendly programs, Dlubal Software provides timely and reliable technical support assistance.

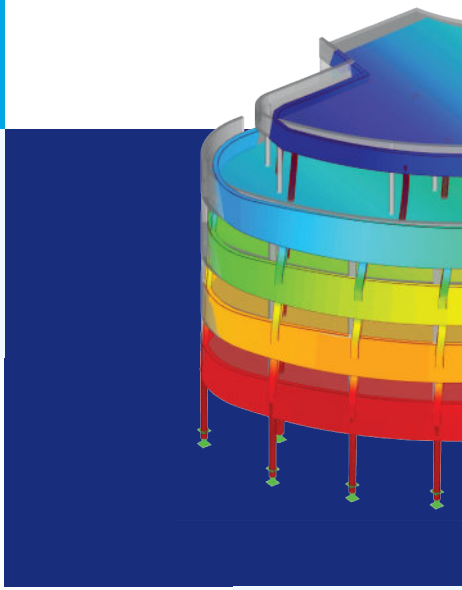
Find additional resources on the Dlubal Software website such as the Knowledge Base, webinars, videos, manuals, FAQs, and many more.

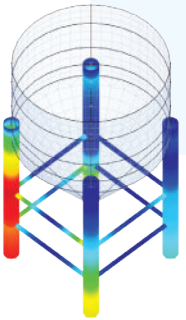
DOWNLOAD 90-DAY TRIAL VERSION NOW



© www.gbi-statik.de







Dlubal Software, Inc.
30 South 15th Street, 15th Floor
Philadelphia, PA 19103

Phone: (267) 702-2815
Email: info-us@dlubal.com

www.dlubal.com