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Structural Analysis
& Design Software

Dipl.-Ing. (FH) Andreas Hörold
Organizer

Marketing & Public Relations
Dlubal Software GmbH

Sonja von Bloh, M.Sc.
Co-Organizer

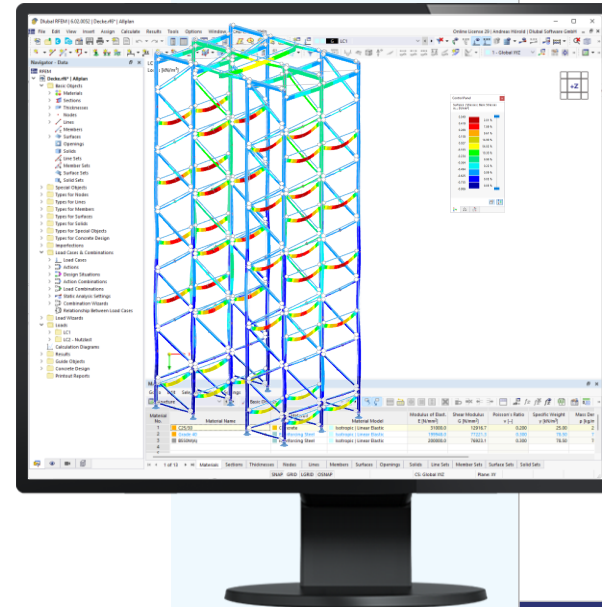Product Engineering & Customer Support
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Dipl.-Ing. (FH) Walter Fröhlich
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Webinar

Modeling and Design of Cold-Formed Steel Sections According to EC 3 in RFEM 6

Questions During the Presentation

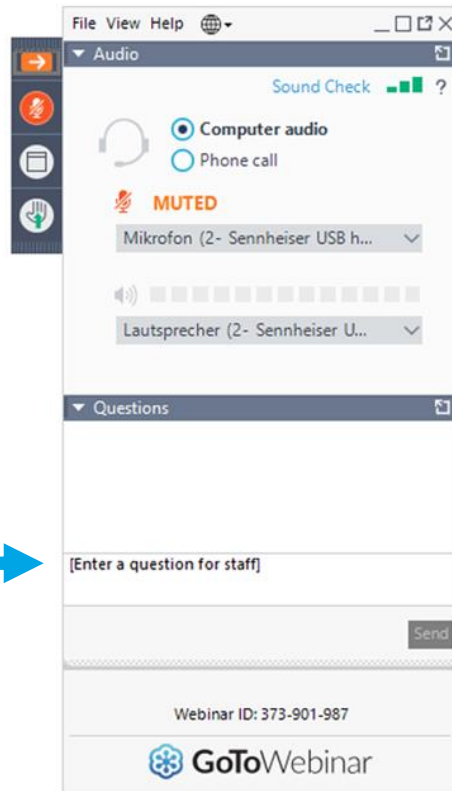GoToWebinar Control Panel
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Ask questions

CONTENT

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Calculation workflow

```
┌─────────────────────────┐
│ Cold-formed section from │────No────▶┌──────────────────────────────────┐
│  cross-section library?  │           │     Create section in RSECTION     │
└─────────────────────────┘           ├──────────────────────────────────┤
            │                          │    RSECTION, Effective Section      │
           Yes                         └──────────────────────────────────┘
            ▼                                          │
┌─────────────────────────┐                           │
│ Determine effective      │◀──────────────────────────┘
│ cross-section            │
├─────────────────────────┤
│      Steel Design        │
└─────────────────────────┘
            │
            ▼
┌─────────────────────────┐
│ Double bending on not    │           ┌──────────────────────────────────────────┐
│ double symmetrical       │──Yes─────▶│ Determination of internal forces according │
│ section¹⁾ or torsion?    │           │ to the second-order analysis, taking into  │
└─────────────────────────┘           │ account warping torsion and local and      │
            │                          │ global imperfections                       │
           No                          ├──────────────────────────────────────────┤
            ▼                          │ Torsional Warping (7 DOF), (Structure      │
┌─────────────────────────┐           │ Stability)                                 │
│ Cross-section-, stability│           └──────────────────────────────────────────┘
│ ²⁾, serviceability-state │◀────────────────────┘
│ design acc. to EN        │
│ 1993-1-3                 │
├─────────────────────────┤
│      Steel Design        │
└─────────────────────────┘
```
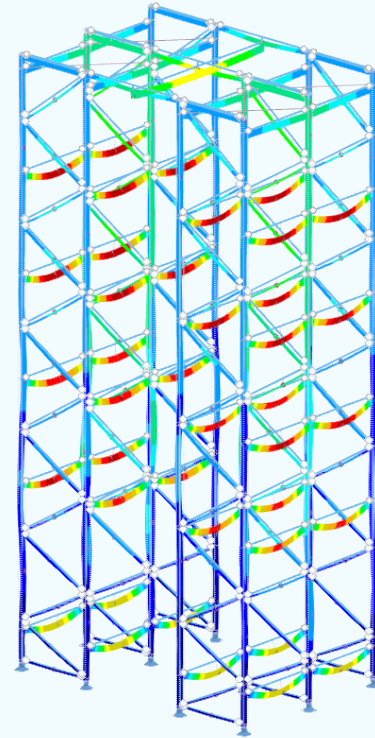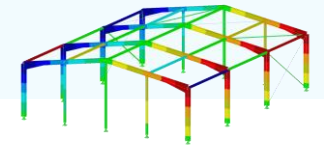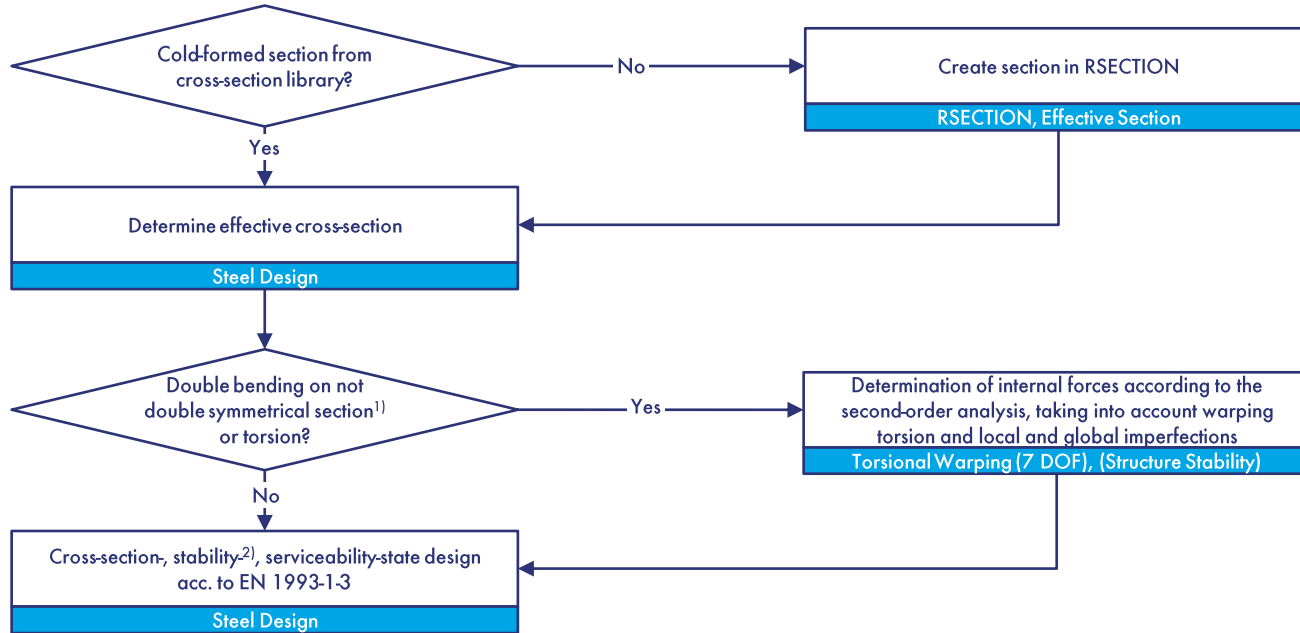
[1] The draft standard EN 1993-1-3 includes a new stability design for biaxial bending in combination with axial force for single symmetric cross-sections.

[2] No additional stability analysis required for structural analysis according to the second-order analysis, taking into account warping torsion and local and global imperfections.

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Dipl.-Ing. (FH) Dipl.-Wirtschaftsing. (FH) Christian Stautner

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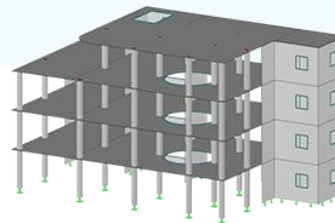COO of Dlubal Software GmbH

Dipl.-Ing. (FH) Michael Hansen

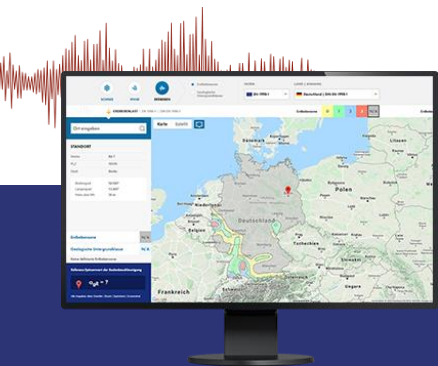Sales & Marketing

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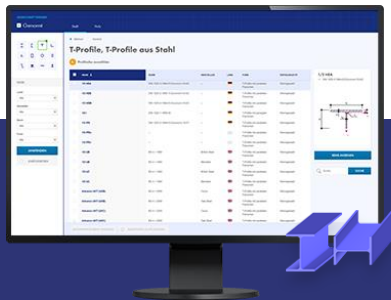➡ **Contact Our Sales Team**

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Dlubal Software provides an online tool with snow, wind and seismic zone maps.

Cross-Section Properties

With this free online tool, you can select standardized sections from an extensive section library, define parametrized cross-sections and calculate its cross-section properties.

FAQs & Knowledge Base

Access frequently asked questions commonly submitted to our customer support team and view helpful tips and tricks articles to improve your work.
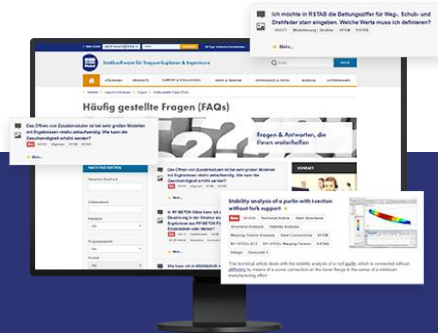
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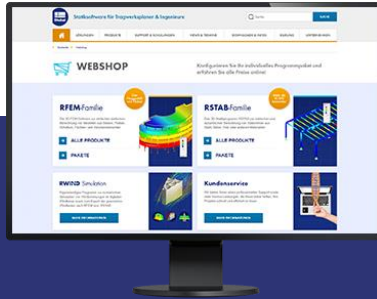
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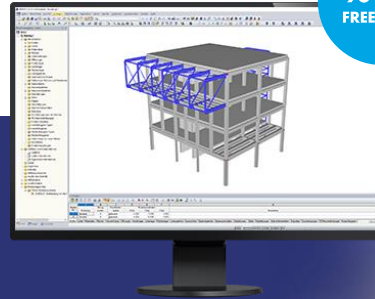Videos and webinars about the structural engineering software.

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