

Structural Analysis & Design Software





Dipl.-Ing. (FH) Andreas Hörold Organizer

Marketing & Public Relations
Dlubal Software GmbH



Dipl.-Ing. Juliane Stopper-Akdag

Co-Organizer

Product Engineering & Customer Support Dlubal Software GmbH



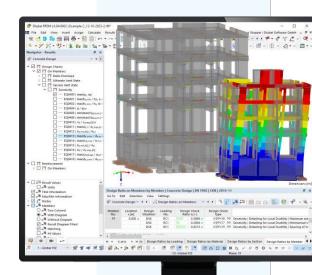
Dipl.-Ing. (FH) Alexander Meierhofer

Co-Organizer

Head of Product Engineering Concrete & Customer Support
Dlubal Software GmbH



Seismic Design of Reinforced Concrete Structures in RFEM 6





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QuestionsDuring thePresentation

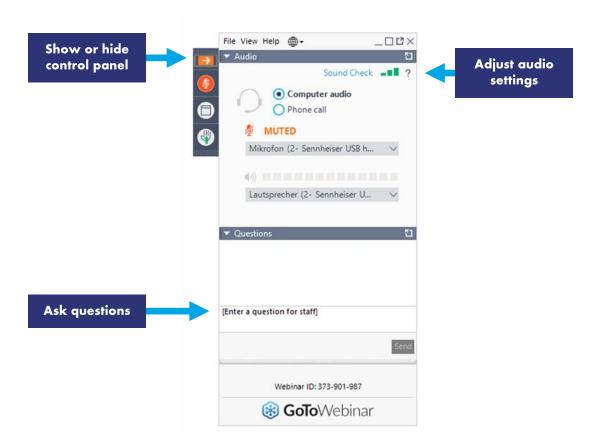


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Presentation of model and loading

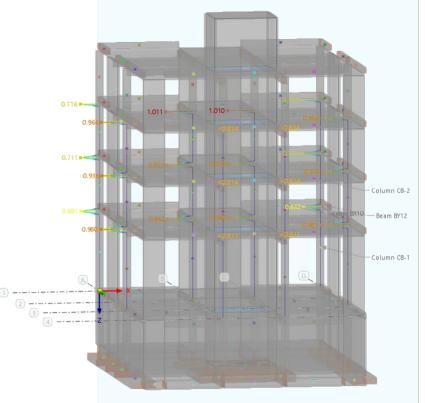
02 Modeling of design objects

O3 Design of reinforced concrete structure according to EC 8

04 Prospects

CONTENT

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Stäbe | EQ 0400 | max max(η_y, η_z) : 1.011 | min max(η_y, η_z) : 0.000 Stäbe | max η : 1.011 | min η : 0.000



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Design process

- 1. Determination of the design parameters
- 2. Conceptual design and preliminary member sizign
- 3. Analysis and design acc. to EC 2

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4. Seismic analysis acc. to EC 8, clause 4

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- 5. Ultimate limit state design
- 6. Capacity design acc. To EC 8, clause 5

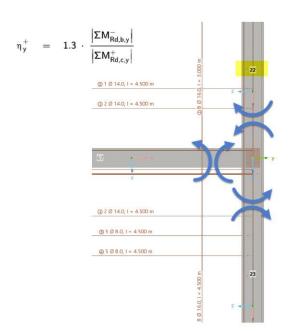
Content of current webinar

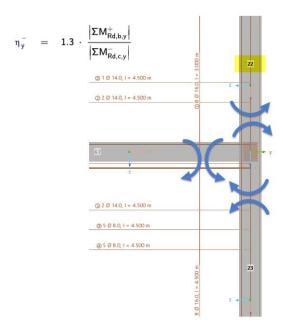




Capacity design

Ratio between Moment resistances acc. to eq.(4.29) - "Strong column – weak beam"

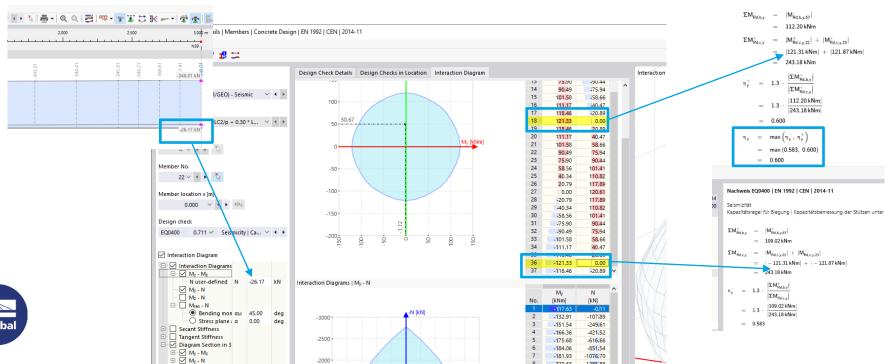






Capacity design

Ratio between Moment resistances acc. to eq.(4.29) - "Strong column – weak beam"





Capacity design

Capacity design shear

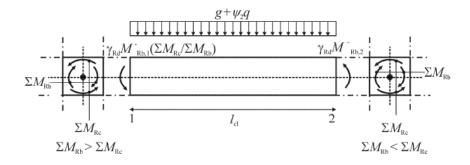


Figure 5.1: Capacity design values of shear forces on beams [DIN EN 1998-1:2010-12]





Links

- Webinar reinforced concrete design in RFEM 6 und RSTAB 9 https://www.dlubal.com/en/support-and-learning/learning/webinars/002636 https://www.dlubal.com/en/support-and-learning/learning/webinars/002783
- Seismic Design According to Eurocode 8 in RFEM 6 and RSTAB 9
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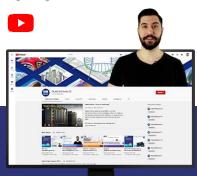




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