

Structural Analysis & Design Software







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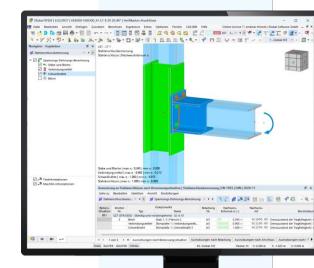


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Dlubal Software GmbH

Webinar

Verification of Standardized Steel Joints Using FE Analysis in RFEM 6





QuestionsDuring thePresentation

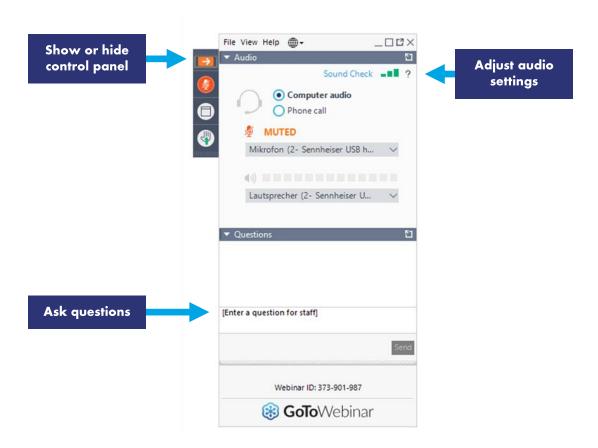


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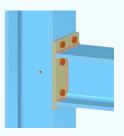


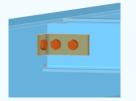
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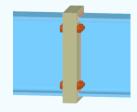
CONTENTS



- O2 Load Bearing Capacity of Steel Connections
 Compared to Limit Values of German DSTV
 Guideline
- O3 Advantages of Steel Joints Add-On





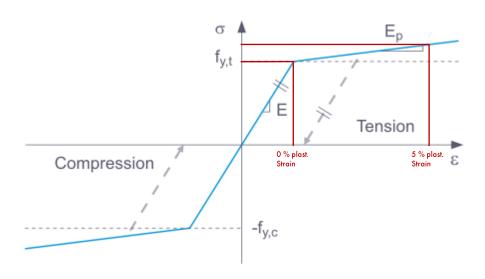




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Material Model: Isotropic | Plastic (Surfaces/Solids)







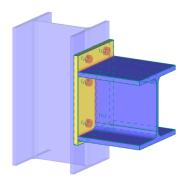
Rigid End Plate Connection IH 3.1 B 30 20

Column: HEB 300 | Horizontal Beam: HEB 300

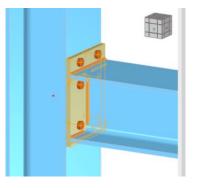
Max. M_Y (DSTV) = 141,5 kNm

Max. M_Y (Steel Joints) = 151,5 kNm

Ratio



Max. V_7 (DSTV) = 321,9 kNm



M and V combined (Steel Joints)

0,89





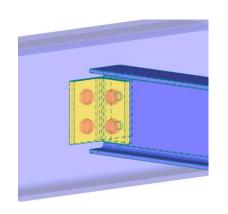
Pinned Connection IW 20 12

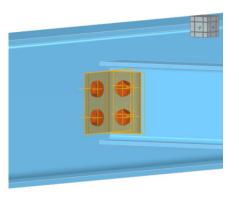
Principal Beam: IPE 360 | Secondary Beam: IPE 200

Max. V_7 (DSTV) = 62,58 kN



Ratio 1,00









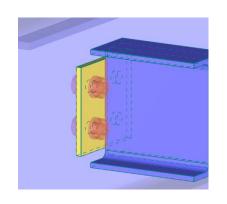
Pinned Connection IS 20 4 8

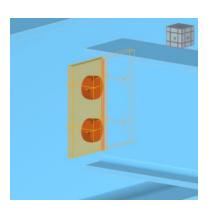
Principal Beam: IPE 360 | Secondary Beam: IPE 200

Max. V_Z (DSTV) = 114,0 kN



Ratio









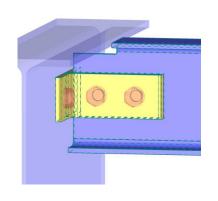
Pinned Connection IW 20 21 + IK 1 2,5 8

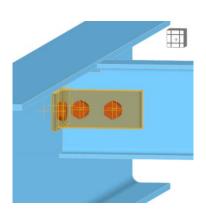
Principal Beam: IPE 360 | Secondary Beam: IPE 200

Max. V_Z (DSTV) = 43,42 kN

Max. V_7 (Steel Joints) = 40.5 kN

Ratio 0,93









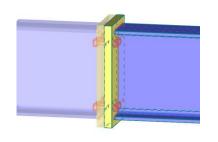
Rigid Plate-to-Plate Connection IH 2.1 E 40 20

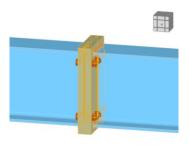
Beam: IPE 400

Max. M_Y (DSTV) = 213,1 kNm

Max. M_Y (Steel Joints) = 189,0 kNm

Ratio 0,89

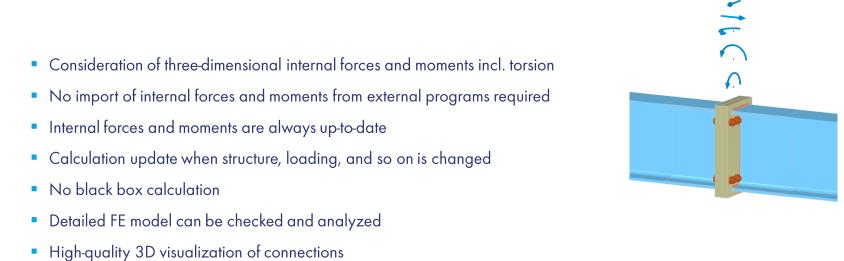






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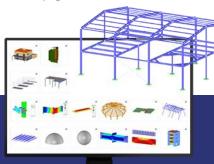
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