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Structural Analysis & Design Software

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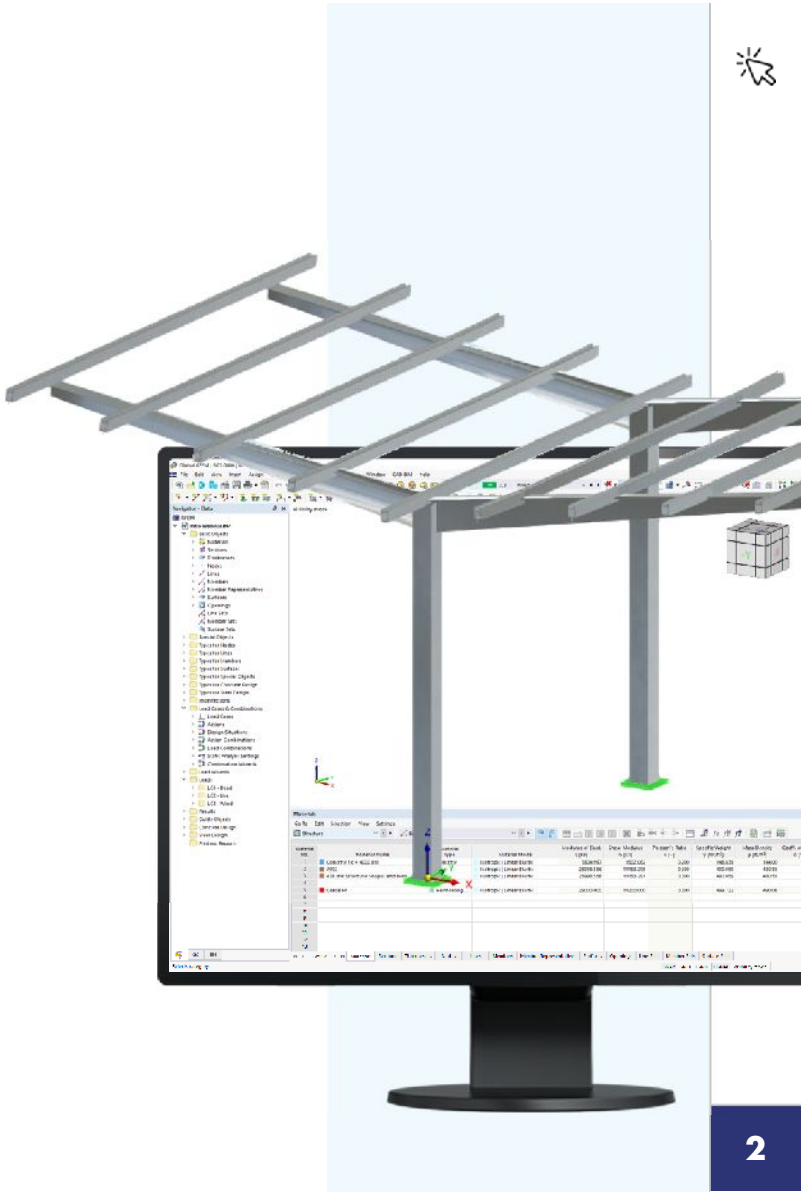
Webinar

ADM 2020 Aluminum Design in RFEM 6



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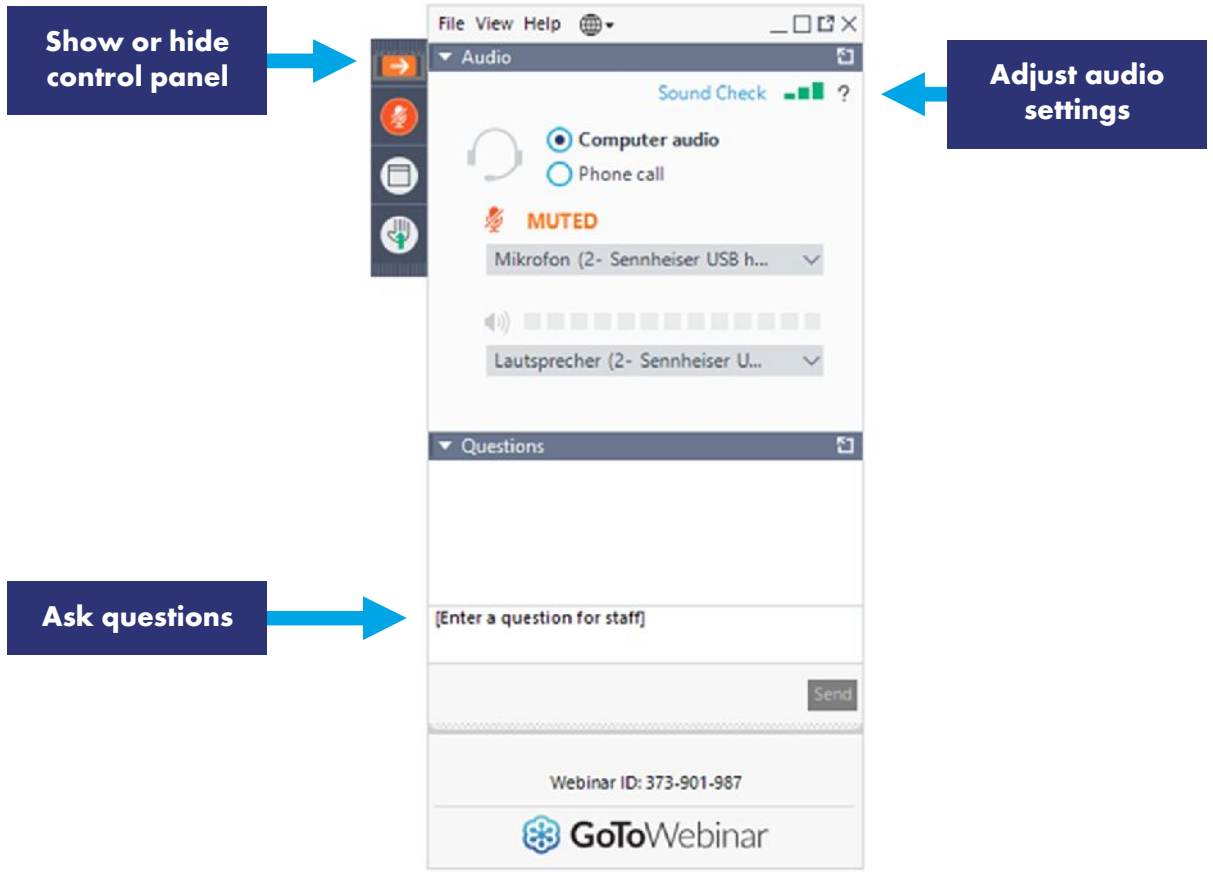


CONTENT

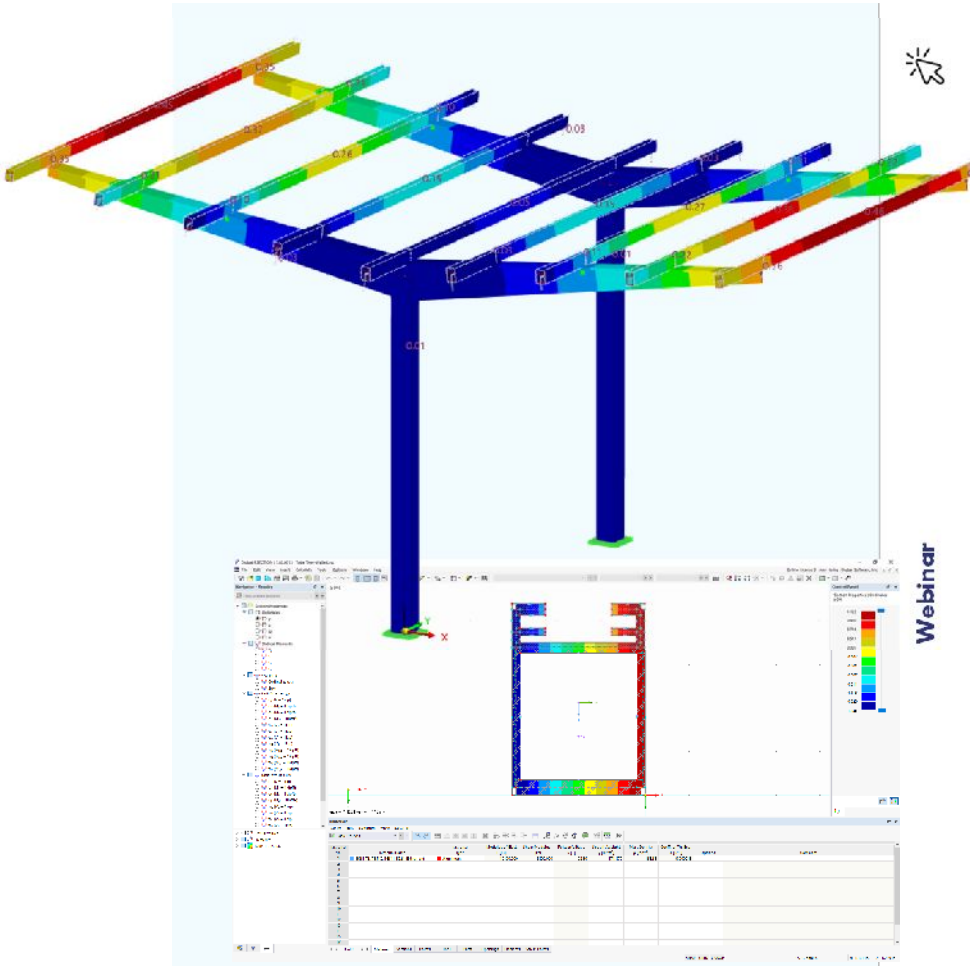
01 Custom extruded section with .dxf import in RSECTION

02 Structure modeling and loading workflow in RFEM 6

03 Member design input data (effective lengths, design supports, etc.)

04 Member design acc. to ADM 2020 using the Aluminum Design add-on

05 Analysis and design results review



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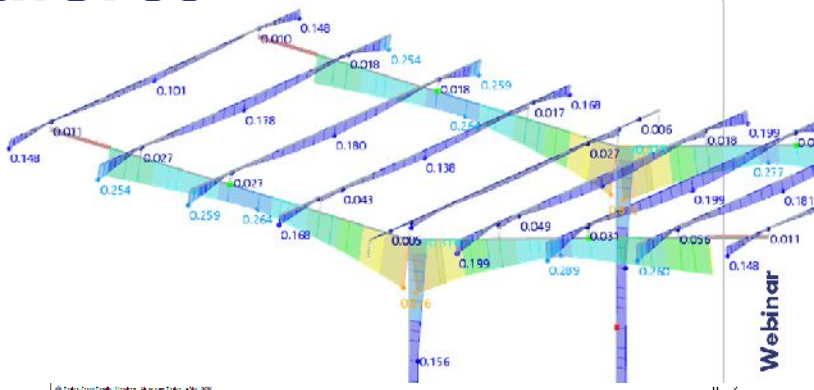
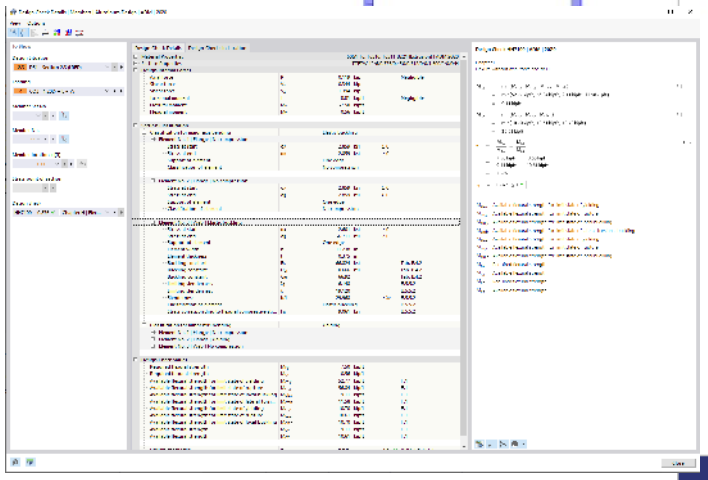
Aluminum Design Add-on New Features

- Integration of add-on directly in main program
- Effective length definition for unbraced lengths
- New design supports for deflection checks
- Member shear considering transverse stiffeners (Sect. G.2)
- Single angle bending considering geometric axes (Sect. F.5.1)
- Detailed design output of member checks





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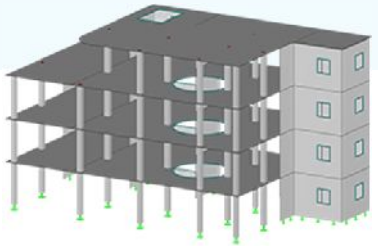
RSECTION Analysis Options

Thin-Walled Analysis

- Thin-walled cross-sections (aluminum, steel, cold-formed steel, etc.)
- Analytical calculation applied
- Stress and force flow along element length, not width
- Torsional and warping properties for elements only (i.e. fillets neglected)
- Subpanel generation for local buckling checks

Finite Element Analysis

- Massive cross-sections (concrete, timber, etc.)
- Finite element method applied
- Stress and force flow along element length and width
- Torsional and warping properties for full cross-section
- No subpanel generation for local buckling checks



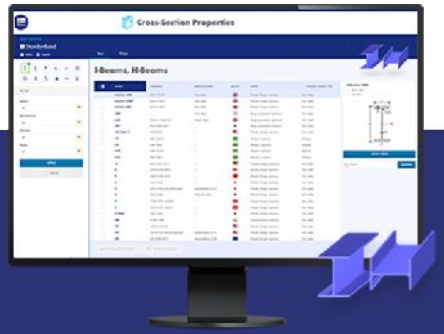
Free Online Services

Geo-Zone Tool

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.



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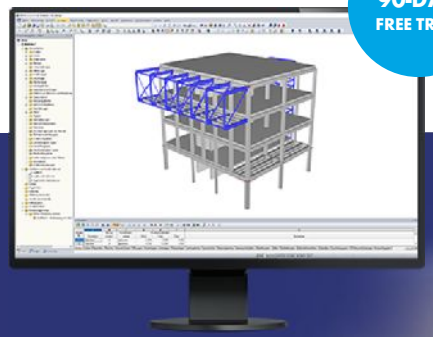

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