

# ST8

## Standardized Connections DSTV<sup>1</sup>

The ST8 application allows the design of moment-resisting and pinned I-beam connections of the types IH and IS in combination with IK beam notches in accordance with the DSTV<sup>1</sup> guidelines "Typified connections in steel building construction", edition 2013 and 2nd edition 2002.

### Standards

- DIN EN 1993-1-8
- DIN V ENV 1993-1-1
- DIN 18800

### System

- I-beam connections
- Material S235 or S355

### IH type series

- Moment-resisting connections with end plate either flush to the surface or projecting on top or bottom and two/four vertical rows of screws

- Screw strength class 8.8 or 10.9
- Beam or column connection with dimensioning of the column cross section

### IS type series

- Pinned connection to sheet metal (connection to any component) or to a column web, an unnotched beam web (i.e. connection in the middle of the web) or a notched beam web (flush to the ceiling structure and, optionally, notched on both sides)
- Screw strength class 4.6 or 10.9

### Loading (actions)

#### IH type series

- Design values of the internal forces  $M_y$  and  $V_z$
- Reverse moment to  $M_y$

- small axial force  $N_d$  and verification whether it can be neglected

### IS type series

- Design values of the shear force  $V_z$

### Analyses

All connections permissible for the defined system are listed as specified in the DSTV<sup>1</sup> catalogue. You can further refine the list by defining additional criteria such as the type of connection, the material or the screw strength or size. The application calculates the utilization for each listed type of connection and generates a well-structured presentation of the connection details including a 3-d model and a 2-d workshop drawing.

<sup>1</sup> Deutscher Stahlbau-Verband

