

## SFB+

### Fin Plate

With the new SFB+ program, all the necessary verifications for fin plate connections "steel girder on steel columns" or "steel girder on secondary girder" can be performed.

I-shaped profiles are permitted as profile types for columns, main and secondary beams, which are connected by means of a fin plate.

In the case of beam-beam connections, the secondary beam to be connected can optionally be arranged with notches at the top, bottom or on both sides or without notches.

As usual in all PLUS programs, this new solution from FRILO is optimized for graphically interactive input.

The output is compact and presents all the evidence in a clear and verifiable form.

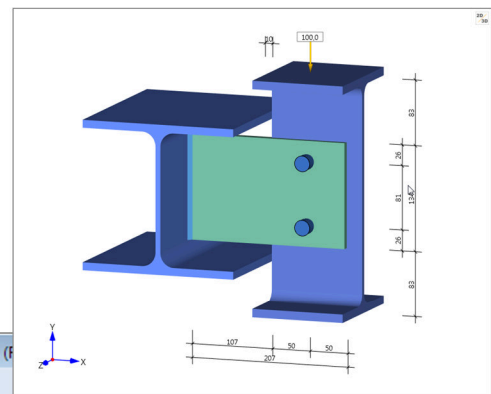
#### Standards

- DIN EN 1993
- ÖNORM EN 1993

#### Loadings

Depending on the selected design model - i.e. Connection either rigid at the center of gravity in the screw pattern or at the weld seam - lateral forces, normal forces and bending moments can be entered.

The existing loads, which always refer to the center of gravity of the screw pattern, are entered as the design internal forces.



**Properties**

- Basic Parameters
- System
  - Gusset plate
  - Screws
- Design inner forces
- Output

**Anschluss**

Connection type	Support - secondary be
flexurally rigid	at the weld
Column	HEA 200
Secondary beam	IPE 300
Distance	[mm] 10

**Support - secondary beam**  
DIN EN 1993:2015  
S235

**Utilization**

Bearing resistance	40%
Shearing	28%
CS secondary girder	38%
QS Fahnenblech	48%
Welding seam	39%
Block failure	50%
Transverse force gross	41%
Transverse force net	37%