

# B10+

## Reinforced Concrete Half Joint

The B10 application allows you to calculate notched supports.

### Standards

- DIN EN 1992-1-1:2012/2013/2015
- ÖNORM EN 1992-1-1:2011/2018
- BS EN 1992-1-1:2015
- EN 1992-1-1:2014

When using precast beams in reinforced concrete frame structures, in order to obtain the lowest possible ceiling structures, dapped beam ends are often required in the supporting area. Because anchorage of the diagonal tie is difficult due to the geometrical conditions in strut-and-tie models with an inclined reinforcement portion of 100 %, a combined strut-and-tie model comprising perpendicular and inclined suspension reinforcement is selected under normal conditions.

### Calculation

- Calculation as per DAfStb<sup>1</sup> Booklet 599
- Combined framework model of perpendicular and diagonal suspension reinforcement
- Freely selectable portion of diagonal reinforcement
- An additional load near the support is taken into account (transfer immediately in the support)
- Calculation of the reinforcement with representation of the reinforcement layout
- Verification of the anchorage of the horizontal reinforcement

<sup>1</sup> German Committee for Reinforced Concrete

