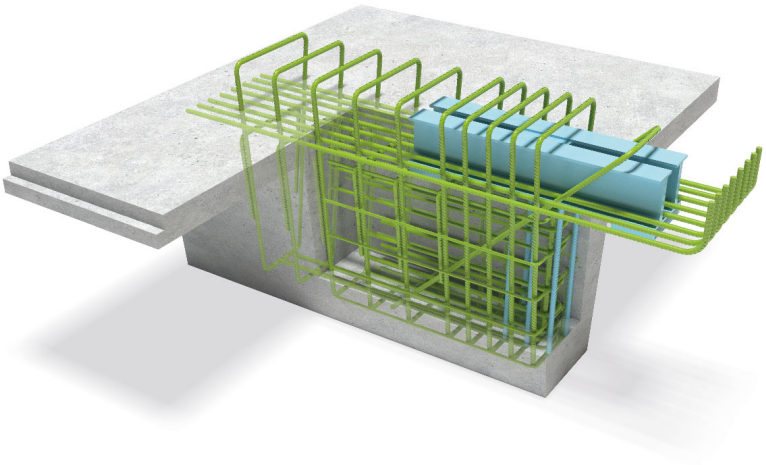
TWIN Corbel

Support for TT slabs, secondary beams and trough units

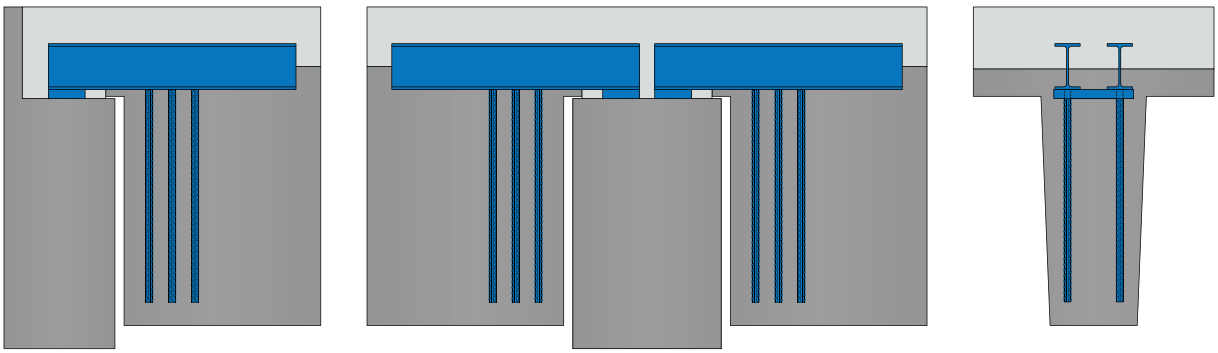
- Simple formwork, no dapped ended beams
- No support ledges for main beams needed
- Saving of construction height
- High resistances
- Optimized additional reinforcement
- Easy dimensioning with design tables
- Entirely approved by Deutsches Institut für Bautechnik (DIBt) , Berlin
- Cost and construction time saving
- No additional support during erecting state required.



TWIN corbel simplify connection with primary supporting structure that enables savings in construction height and without a need for additional propping. TWIN corbels are embedded steel parts providing a various range of applications for simply supported TT slabs, secondary beams or trough units in combination with additional structural concrete topping. Spacing of steel profiles and anchor bars has been pre-defined to minimize the collision with beam reinforcement or strand layer.

Clear ceiling with the low height of bearing components underside has a positive impact to overall building architecture. Easier and faster production of precast elements compared to conventional system without required support ledges in a standard formwork, with reduced final eccentricity is an efficient way towards the overall cost reduction.

The support reactions in the erecting state due to the dead load of the precast unit and the in-situ topping are completely transferred by the TWIN corbel into the supporting construction. In the final state, i.e. after hardening of the in-situ concrete supplement, the TWIN corbel participates proportionally in the transfer of the total support reaction according to its load in the erecting state. The total resistance of the connection results from the load in the erecting state together with the resistance of the concrete slab. The resistances of available TWIN corbel types are in the range of 65 kN to 145 kN.



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