

FDS+

Strip Foundation

FDS+ allows you to calculate the required dimensions of strip foundations under centric and uniaxial eccentric loading. The required bending and shear reinforcement is calculated for the defined dimensions. The software also checks whether shear and bending reinforcement can be dispensed with in the lower layer. Moreover, the permissible base pressure, the gapping joint as well as the safety against sliding, displacement and ground failure are verified.

Standards

- EN 1992
- DIN EN 1992
- ÖNORM EN 1992
- BS EN 1992
- DAFStb-Heft 240

The software selects the foundation standard automatically in accordance with the selected reinforced concrete standard.

Loads

- Wall loads G and Q
- Moments in the x- and y- directions
- Horizontal loads in the x- and y- directions
- Loading on the foundation area left and/or right to the wall
- Permanent, variable, accidental and earthquake loads can be defined and assigned to simultaneous and alternative groups

Foundation self-weight is automatically taken into account.

Results

- Utilization of the foundation analyses
- The bending moment and the required bending reinforcement are indicated per linear metre of the foundation, if applicable.
- For rising masonry walls, the design is performed for the smoothed moment underneath the wall axis and for rising concrete walls for the face moment.

Reinforcement

Optionally, you can design the connecting reinforcement for rising concrete walls.

