

## BWA+

### Basement Wall

The application allows the design of basement walls of reinforced concrete that can bear vertical top loads and moments as well as earth pressure on one side.

The software performs the simplified proof according to DIN 1054:2010. Output of bend and shear design of the foundation.

If the Strip Foundation application FDS is installed on your computer, BWA puts the bending and shear design out in addition.

#### Available standards

- DIN EN 1992
- BS EN 1992
- ÖNORM EN 1992
- EN 1992
- NTC 1992

Furthermore

- DIN 1045-1
  - ÖNorm B4700
- Foundation engineering standards
- DIN 1054
  - DIN EN 1997 in Verbindung mit DIN 1054:2015

#### Structural system

- Ceiling - wall - foundation
- The support of the ceiling can be either pinned or partially or fully restrained
- Concentrated loads applying to the wall head and the inner foundation border
- Concentrated moments applying at the wall head
- Top load on the ground
- Slope
- Block loads
- Soil layers
- Water

#### Calculation

The basement wall is considered as a vertical member with a pinned or restrained top and a base restrained between two bedded members simulating the foundation.

