

Δ1

Analysis of foundation pit walls DC-Pit

- Analysis of foundation pit walls acc. to Eurocode 7, DIN 1054:2010, DIN 4085, EAB 2006, EAU 2004, SIA 267, OENORM B 4434,
- British Standard BS 8002
 Design option (Dimensioning): Steel design acc. to Eurocode 3, DIN 18 800, SIA 263, British Standard BS 5950, reinforced concrete acc. to Eurocode 2, DIN 1045-1, DIN 1045, OENORM B 4700, SIA 262, British Standard BS 8110
- Analysis with partial safety factors or with global safety
 German, English, French, Italian, Bulgarian, Romanian, Russian
- language



- Bore pile walls, diaphragm walls, sheet pilings, girder plank walls, MIP (Mixed In Place)
- Selection of predefined sheet piling types or girder profiles (HE-A, HE-B, etc.)
- Wall types to be combined (e.g. inserted girder on a bore pile wall)
- Inclined walls with earth pressure on the inclined wall
- Active, increased active earth pressure or pressure at rest
- Different redistribution types: triangle, trapezium, one or several rectangles, affined figure
- Dead and live loads in different load cases, unlimited imposed
 loads and block loads with different earth pressure distribution, excavation-related loads
- Different soil layers and slopes
- Arbitrary water levels in front of and behind the wall
- Building and dismantling stages
- Adjustable anchor positions and props per excavation incl.
 pre-deformation, spring constant
 - and pretension
- Inactive anchors in order to analyze variants
- Different foot bearings
- Fixed toe depth or iteration
- Iteration of the inclination angles δ_{p} and δ_{c}
- Verification of the transfer of vertical forces by skin friction and end bearing



- Calculation of section forces with anchor and bedding forces
- Anchor analysis in the deep sliding plane
- Detailed result output

Dimensioning of the bore pile wall (to 8.48 m)



Туре:

🔘 Bore Pile Wall

Unit weight gamma (kN/m²) 78.500

Young's modulus (MN/m²) 210000.000



Design of bore pile walls (1-3-1)

-Shifting-

delta x top

delta x bottom

🔘 Diaphragm Wall 💿 Sheet Piling

Different

0.000

0.000

🔘 Girder Plank Wall 🔘 MIP

wall types

- Graphic of the system, earth pressures, section forces and deformations
- Display of section forces alternatively characteristic and design values, from dead, live, water and total loads
- **Dimensioning option** for the design of all components: sheet pilings, in-situ concrete walls incl. circular section of bored piles, girder planks, infillings in concrete, timber or steel, pile or shotcrete infilling, dimensioning of anchors and booms (steel or reinforced concrete)

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