

1. Used materials

The geologic map of ČSSR, the map of pre-quaternary objects, scale 1 : 200 000

The geologic map of Czech Republic, scale 1 : use 50 000

2. Summary of geological and hydro-geological state

The site is located in an area moravskobeskydský flysch.

Pre-Quaternary bedrock is composed of sedimentary rocks of Mesozoic age belonging to Podslézská units called Frýdeks layers.

Petrography's terms of silts mudstones, gray calcareous claystone, which are strongly affected in the surface zone by weathering effects, respectively they are passing in eluvia.

3. Geological profile.

Soil depth	Soil specification	Soil class Acc. CSN 73 1001	Soil workability Acc. CSN 73 3050
0.-0.5m	top soil	F6 CL,CI	3
0.5-2m	weathered claystone	R5	4
2-5m	Slight weathered claystone	R4	5

Level of underground water is in depth of 10m.

4. Geotechnical properties of rocks

	R4
mass volume ρ_n (Mg/m ³)	2.2
defirnatuib modulus E_{def} (MPa)	25
eff. angle of internal friction ϕ_{ef} (°)	21
eff. cohesion coeff. c_{ef} (kPa)	50
Poisson number ν (1)	0.30

5. geological evaluation

These geological conditions can be classified as simple.

The load bearing capacity of soil were determined by calculation to $R_d = 430 \text{ kPa}$