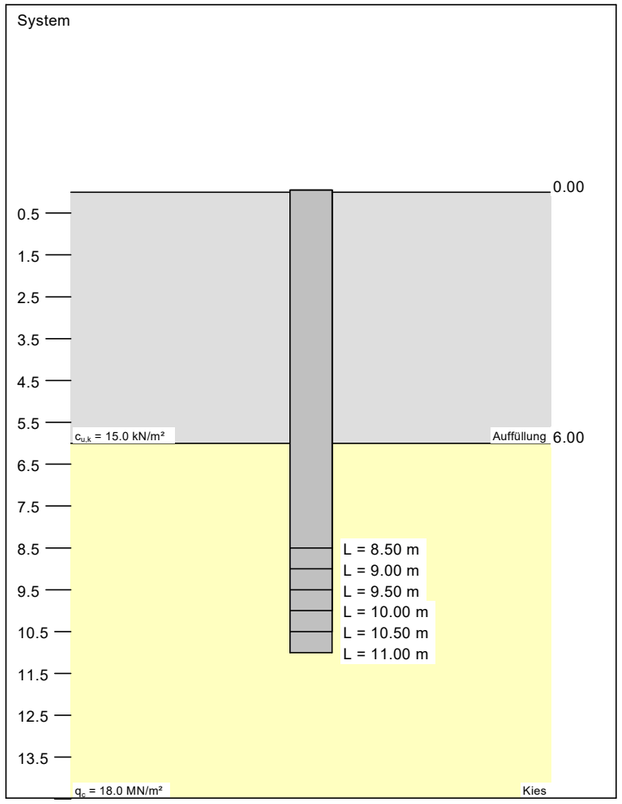
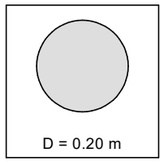
| | | |
|---|---|---|
| Dipl.- Geol. F. Ohin-GmbH<br>Achenweg 3<br>83101 Rohrdorf<br>08032/91220 | Neufinsing<br>Kastanienweg FINr 609<br>verpresster Mikropfahl | AZ: 19-10-01<br>Anlage 5.1 |



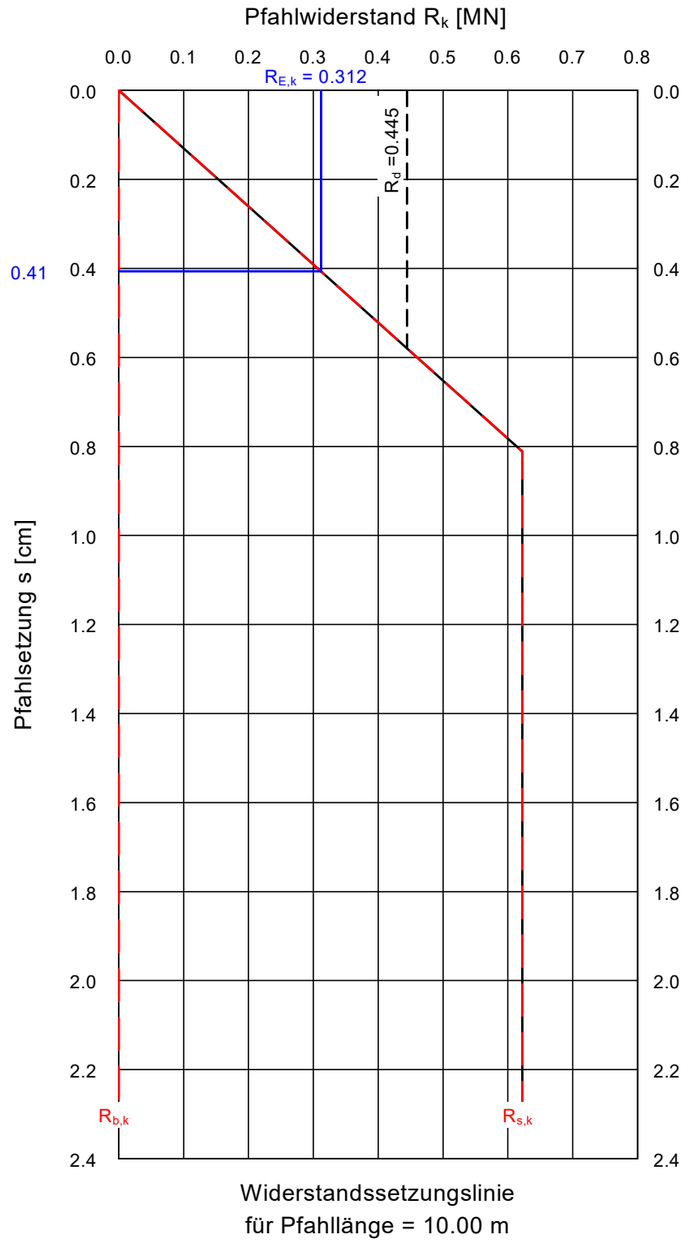

| Boden | $q_c$ [MN/m²] | $c_{u,k}$ [kN/m²] | $q_{b,k02}$ [MN/m²] | $q_{b,k03}$ [MN/m²] | $q_{b,k10}$ [MN/m²] | $q_{s,k}$ [MN/m²] | Bezeichnung |
|---|---|---|---|---|---|---|---|
| | 0.0 | 15.0 | 0.000 | 0.000 | 0.000 | 0.0138 | Auffüllung |
| | 18.0 | 0.0 | 0.000 | 0.000 | 0.000 | 0.2270 | Kies |

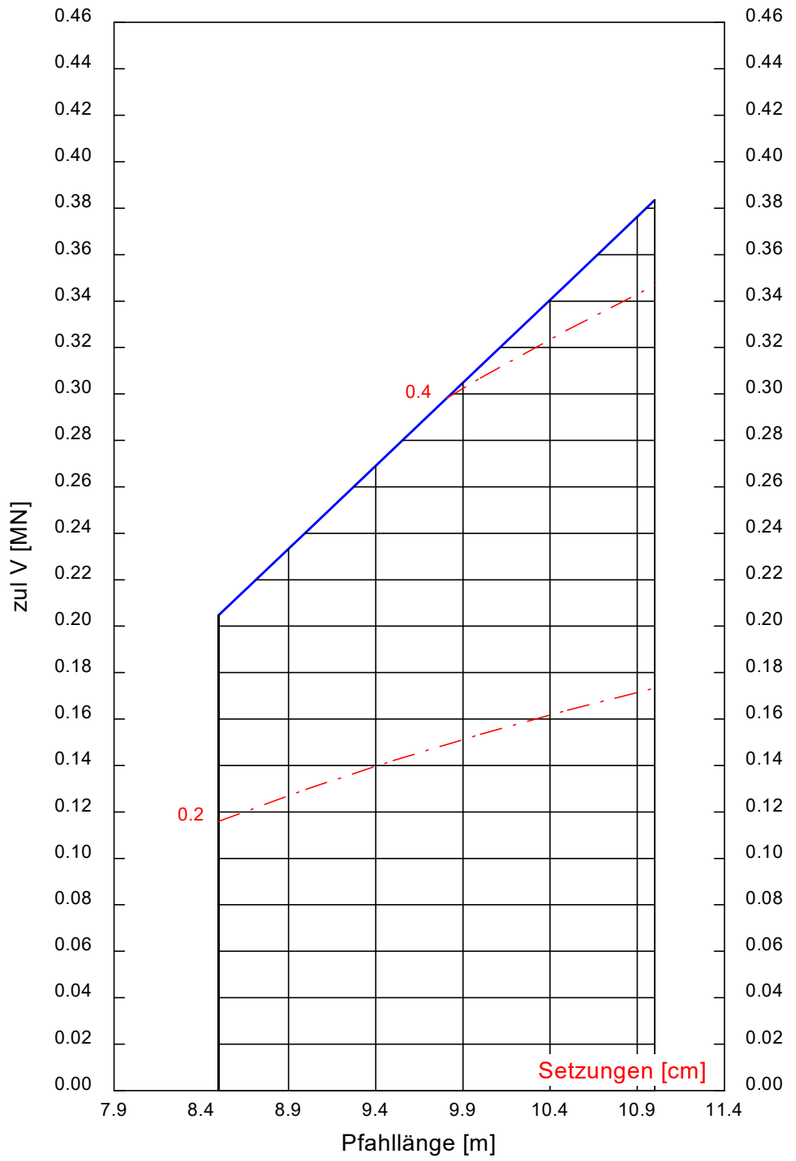
Berechnungsgrundlagen
Norm: EC 7
Verpresster Mikropfahl
Verhältniswert (min, max) = 0.00
Interpolation Mantelreibung:
bei $q_c$ < 7.5 MN/m² deaktiviert
bei $c_{u,k}$ < 60 kN/m² aktiviert
Pfahldurchmesser = 0.200 m
$\gamma_P$ = 1.40
$\gamma_G$ = 1.35

$\gamma_Q$ = 1.50
Anteil Veränderliche Lasten = 0.500
$\gamma_{(G,Q)} = 0.500 \cdot \gamma_Q + (1 - 0.500) \cdot \gamma_G$
$\gamma_{(G,Q)}$ = 1.425
Zul V
Setzung

| D [m] | Länge [m] | $R_k$ [MN] | $R_d$ [MN] | $R_{E,k}$ [MN] | zul V [MN] | s [cm] |
|---|---|---|---|---|---|---|
| 0.200 | 8.50 | 0.408 | 0.292 | 0.205 | 0.205 | 0.35 |
| 0.200 | 9.00 | 0.480 | 0.343 | 0.240 | 0.240 | 0.37 |
| 0.200 | 9.50 | 0.551 | 0.394 | 0.276 | 0.276 | 0.39 |
| 0.200 | 10.00 | 0.622 | 0.445 | 0.312 | 0.312 | 0.41 |
| 0.200 | 10.50 | 0.694 | 0.495 | 0.348 | 0.348 | 0.42 |
| 0.200 | 11.00 | 0.765 | 0.546 | 0.383 | 0.383 | 0.44 |

zul V = $R_{E,k} = R_k / (\gamma_P \cdot \gamma_{(G,Q)}) = R_k / (1.400 \cdot 1.425) = R_k / 1.99$ [$\gamma_{(G,Q)}$ = 1.425]



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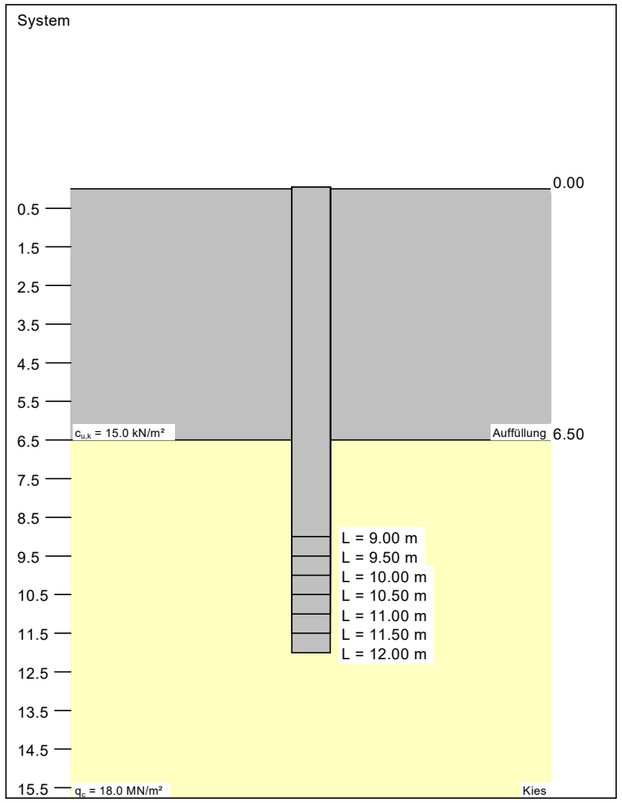
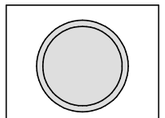
# Neufinsing
## Kastanienweg FlNr 609
## duktiler Rammpfahl

AZ: 19-10-01

Anlage 5.2




| Boden | $q_c$ [MN/m²] | $c_{u,k}$ [kN/m²] | $q_{b,k35}$ [MN/m²] | $q_{b,k10}$ [MN/m²] | $q_{s(sg^+),k}$ [MN/m²] | $q_{s(sg),k}$ [MN/m²] | Bezeichnung |
|---|---|---|---|---|---|---|---|
| | 0.0 | 15.0 | 0.000 | 0.000 | 0.0000 | 0.0000 | Auffüllung |
| | 18.0 | 0.0 | 4.150 | 7.945 | 0.0710 | 0.1040 | Kies |

Berechnungsgrundlagen
Norm: EC 7
Fertigrammpfahl
Geschlossenes Stahlrohr
Verhältniswert (min, max) = 0.00
Interpolation Mantelreibung:
bei $q_c$ < 7.5 MN/m² deaktiviert
bei $c_{u,k}$ < 60 kN/m² deaktiviert
$\eta_b$ = 0.800
$\eta_s$ = 0.600

Pfahldurchmesser = 0.200 m
$\gamma_P$ = 1.40
$\gamma_G$ = 1.35
$\gamma_Q$ = 1.50
Anteil Veränderliche Lasten = 0.500
$\gamma_{(G,Q)} = 0.500 \cdot \gamma_Q + (1 - 0.500) \cdot \gamma_G$
$\gamma_{(G,Q)}$ = 1.425
Zul V
Setzung

| D [m] | Länge [m] | $R_k$ [MN] | $R_d$ [MN] | $R_{E,k}$ [MN] | zul V [MN] | s [cm] |
|---|---|---|---|---|---|---|
| 0.200 | 9.00 | 0.298 | 0.213 | 0.149 | 0.149 | 0.50 |
| 0.200 | 9.50 | 0.317 | 0.227 | 0.159 | 0.159 | 0.48 |
| 0.200 | 10.00 | 0.337 | 0.241 | 0.169 | 0.169 | 0.45 |
| 0.200 | 10.50 | 0.357 | 0.255 | 0.179 | 0.179 | 0.42 |
| 0.200 | 11.00 | 0.376 | 0.269 | 0.189 | 0.189 | 0.40 |
| 0.200 | 11.50 | 0.396 | 0.283 | 0.198 | 0.198 | 0.37 |
| 0.200 | 12.00 | 0.415 | 0.297 | 0.208 | 0.208 | 0.35 |

zul V = $R_{E,k} = R_k / (\gamma_P \cdot \gamma_{(G,Q)}) = R_k / (1.400 \cdot 1.425) = R_k / 1.99$ [$\gamma_{(G,Q)}$ = 1.425]