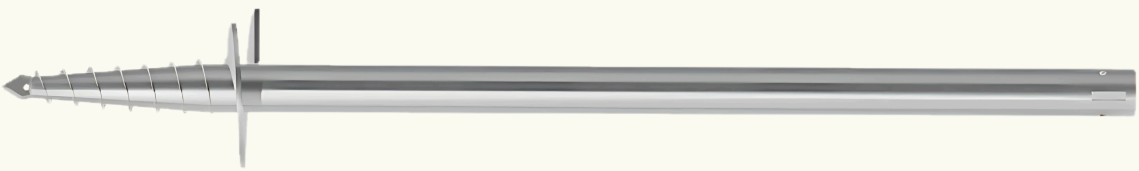
# LOAD DIAGRAM
## Ø76 SINGLE-HELIX GROUND SCREWS

The load-bearing capacity is given in kilonewtons (kN), where 1 kN corresponds to 100 kg.

The diagram shows that a ground screw anchored 80 cm into the load-bearing layer can carry a load of 73.3 kN, which corresponds to 7,330 kg of vertical compressive capacity.

Data sheets for our complete PROF range can be found on our website: www.bayosystem.com


- The listed values have been determined for clay soil with an undrained shear strength (Cu) of 200 kPa.
- The lateral load is limited to a constant maximum of 5 kN for vertical Ø76 piles. If higher horizontal capacity is required, the piles are installed inclined so that combined compression/tension action can be mobilised.
- The values in the diagram are based on geostatic calculations; full-scale tests show higher capacities.



Last updated in June 2025, BAYO.S Ground Screws

# LOAD DIAGRAM
## Ø76 DOUBLE-HELIX GROUND SCREWS

The load-bearing capacity is given in kilonewtons (kN), where 1 kN corresponds to 100 kg.

From the diagram it can be seen that a screw installed 80 cm into the load-bearing layer can take a vertical compressive load of 85.2 kN, corresponding to 8,520 kg.

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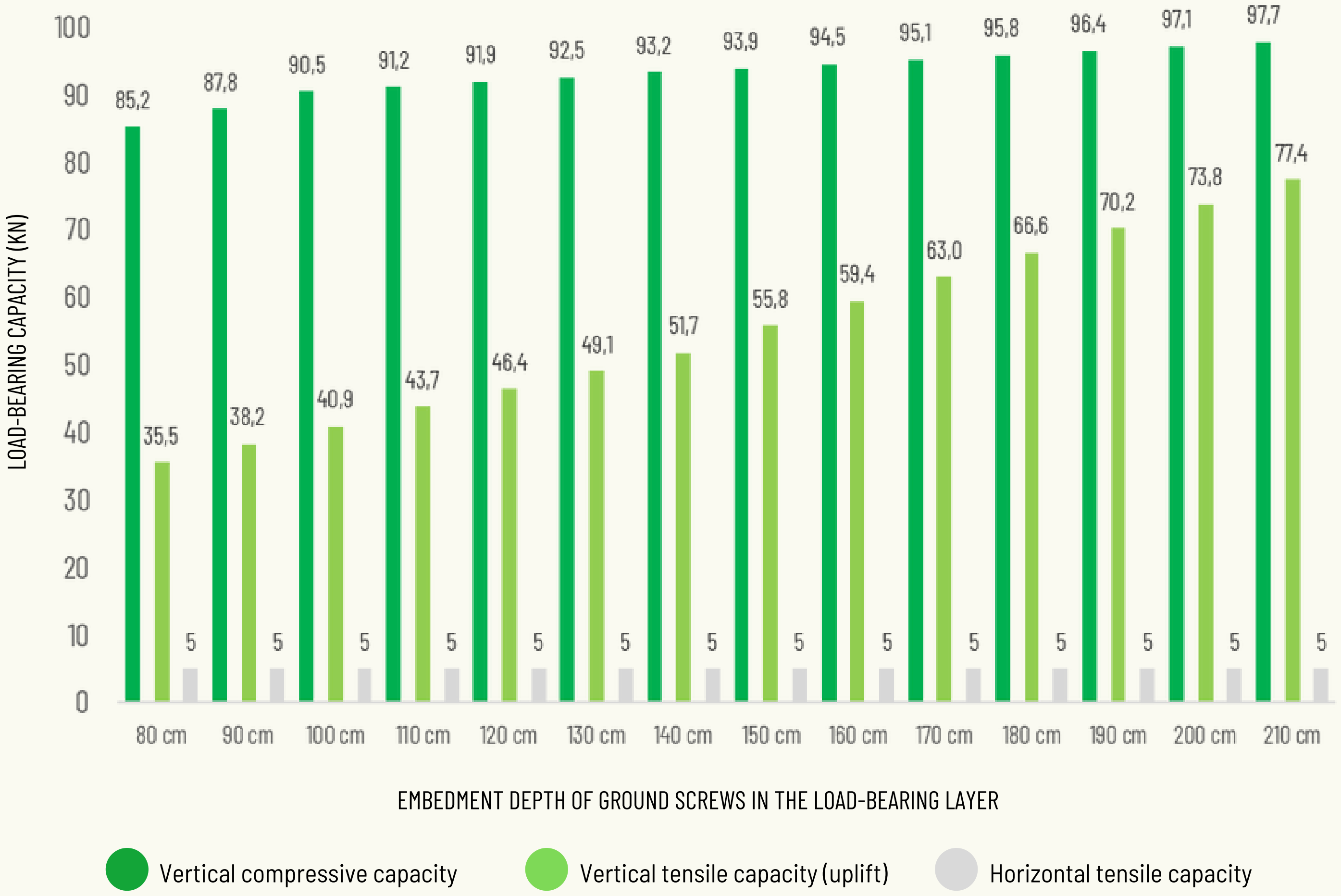
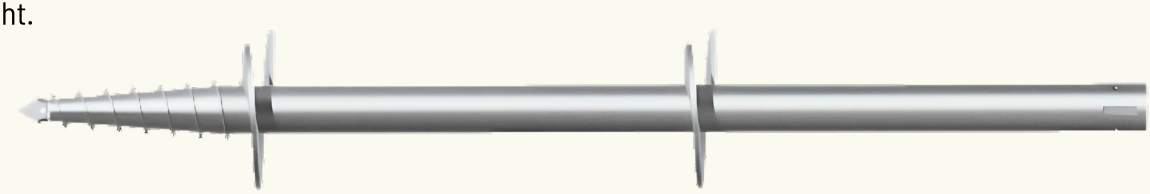



- Die aufgeführten Werte wurden für den Bodentyp Lehm mit einer undränierten Scherfestigkeit (CU) von 200 kPa bestimmt.
- Die Querbelastung ist konstant auf maximal 5 kN für vertikale Pfähle Ø76 festgelegt. Wenn eine höhere horizontale Tragfähigkeit gewünscht ist, werden die Pfähle geneigt, sodass Druck-/Zugkombinationen ausgenutzt werden.
- Die Werte in der Grafik basieren auf geostatischen Berechnungen; in Tests wird eine höhere Tragfähigkeit erreicht.

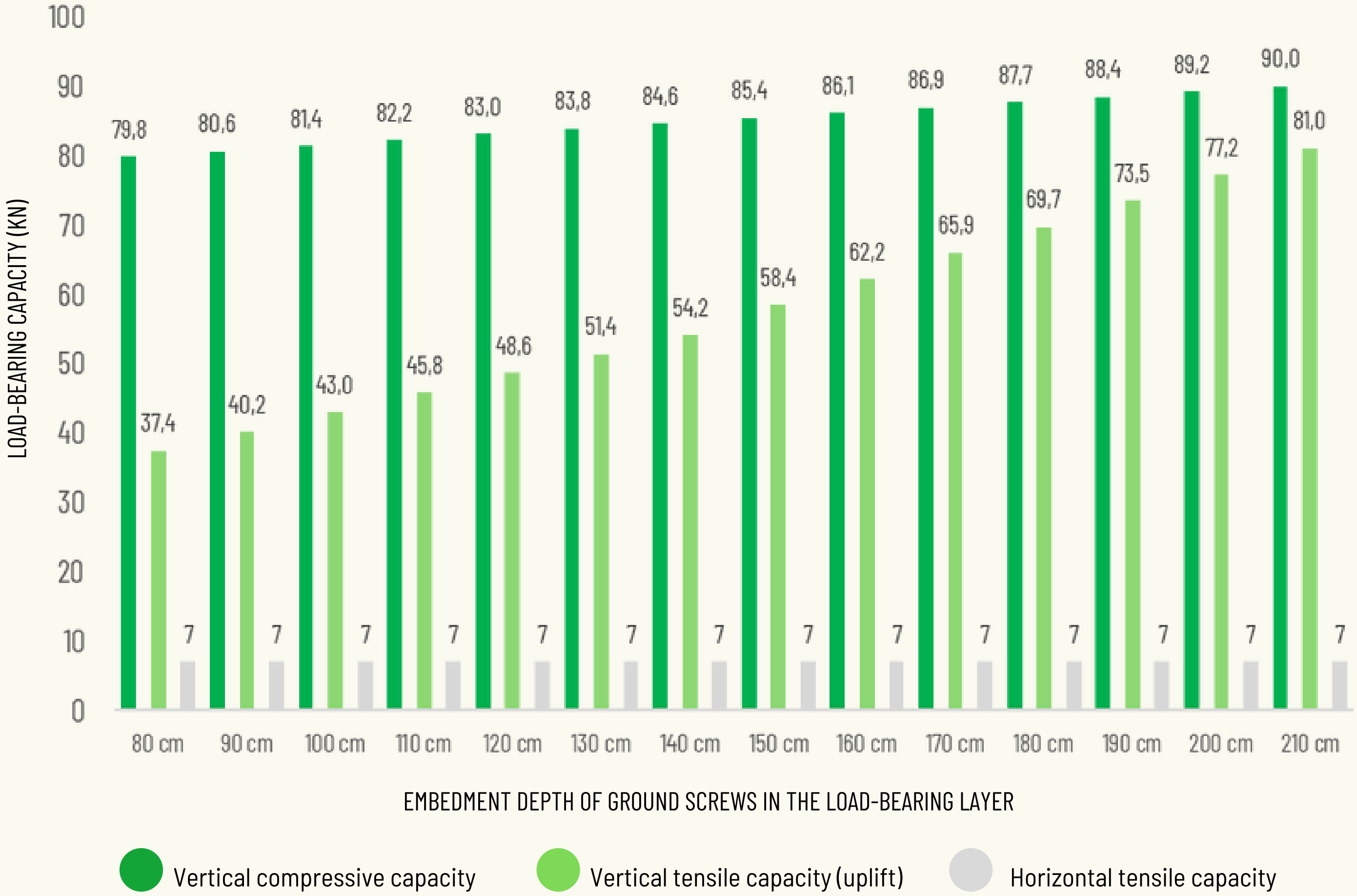


# LOAD DIAGRAM
## Ø89 SINGLE-HELIX GROUND SCREWS

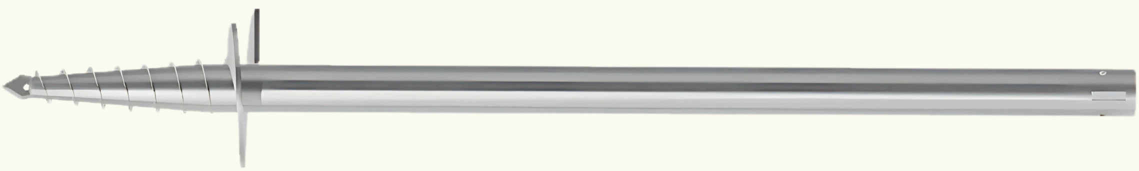
The load-bearing capacity is given in kilonewtons (kN), where 1 kN corresponds to 100 kg.

From the diagram it can be seen that a screw installed 80 cm into the load-bearing layer can take a vertical compressive load of 79.8 kN, corresponding to 7,980 kg.

Data sheets for our complete PROF range can be found on our website: www.bayosystem.com.




- The listed values were determined for clay soil with an undrained shear strength (Cu) of 200 kPa.
- The lateral load is limited to a constant maximum of 7 kN for vertical piles Ø89. If higher horizontal load-bearing capacity is required, the piles are installed inclined so that combined compression/tension can be utilised.
- The values in the diagram are based on geostatic calculations; in tests, higher load-bearing capacities are achieved.



Last updated in June 2025, BAYO.S Ground Screws

# LOAD DIAGRAM
## Ø89 DOUBLE-HELIX GROUND SCREWS

The load-bearing capacity is given in kilonewtons (kN), where 1 kN corresponds to 100 kg.

From the diagram it can be seen that a screw installed 80 cm into the load-bearing layer can take a vertical compressive load of 94.1 kN, corresponding to 9,410 kg.

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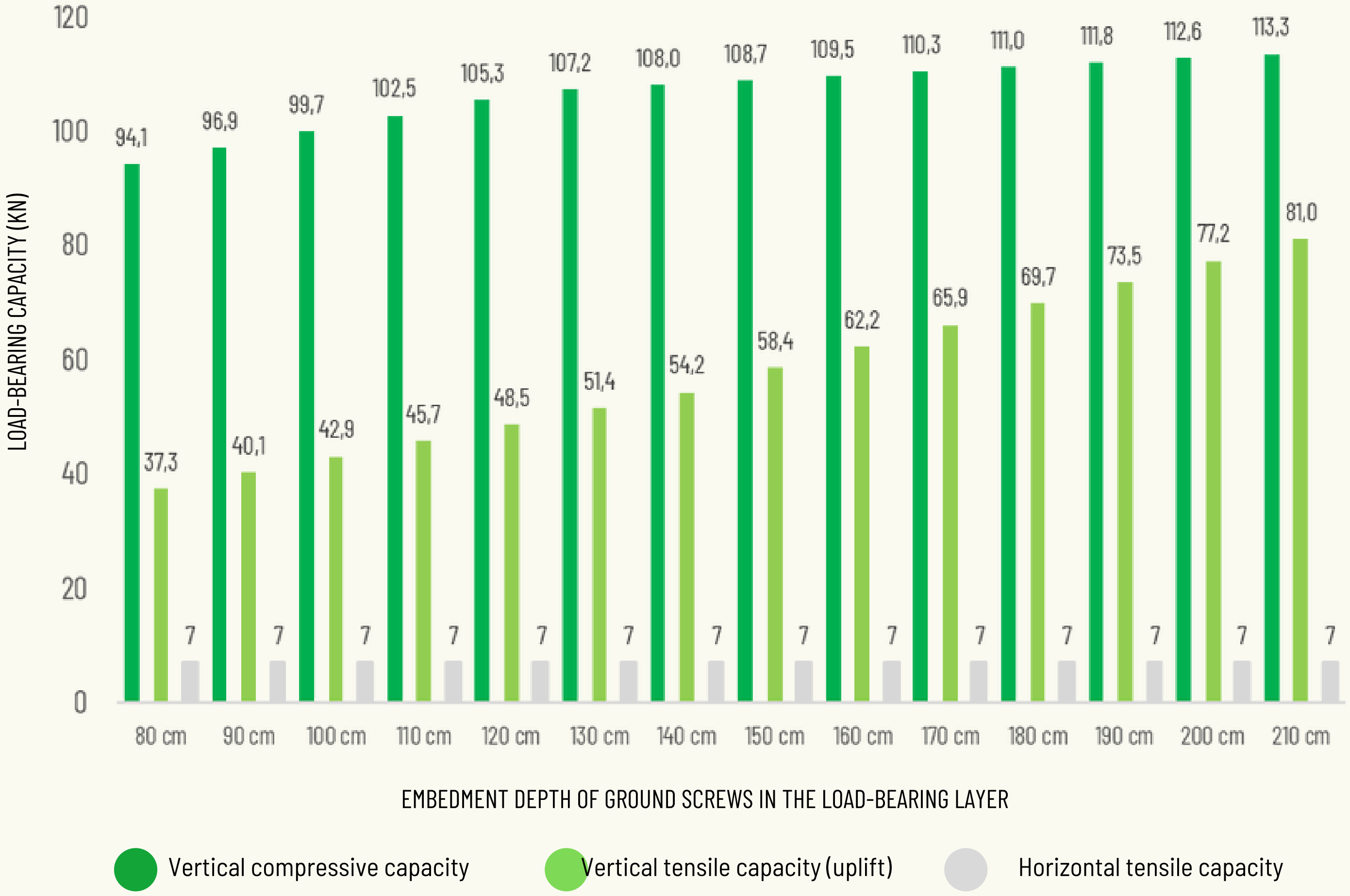



- The listed values were determined for clay soil with an undrained shear strength (Cu) of 200 kPa.
- The lateral load is limited to a constant maximum of 7 kN for vertical piles Ø89. If higher horizontal load-bearing capacity is required, the piles are installed at an inclination so that combined compression/tension can be utilised.
- The values in the diagram are based on geostatic calculations; in tests, higher load-bearing capacities are achieved.

Last updated in June 2025, BAYO.S Ground Screws

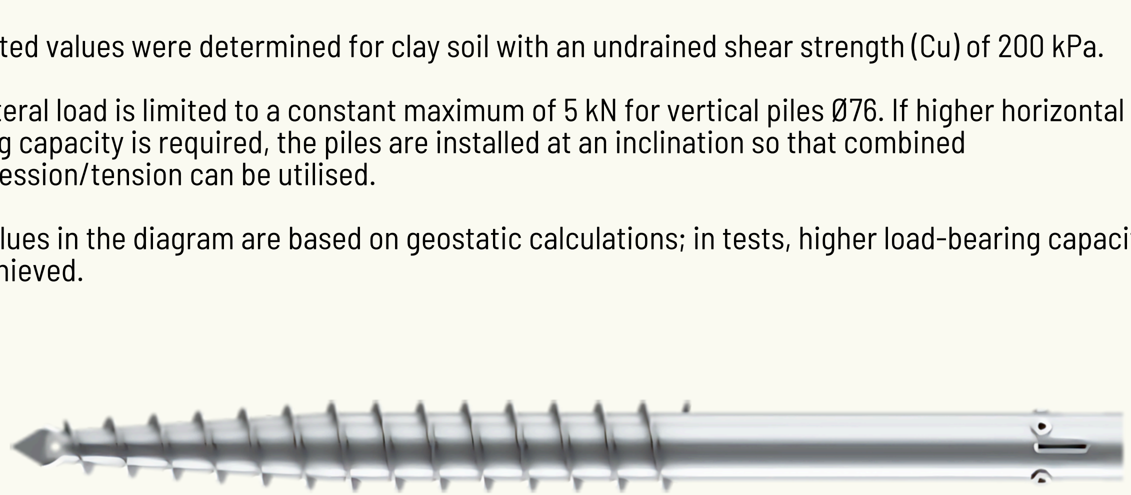
# LOAD DIAGRAM
## Ø76 T12 GROUND SCREWS

The load-bearing capacity is given in kilonewtons (kN), where 1 kN corresponds to 100 kg.

From the diagram it can be seen that a screw installed 80 cm into the load-bearing layer can take a vertical compressive load of 16.7 kN, corresponding to 1,670 kg.

Data sheets for our complete PROF range can be found on our website: www.bayosystem.com.


- The listed values were determined for clay soil with an undrained shear strength (Cu) of 200 kPa.
- The lateral load is limited to a constant maximum of 5 kN for vertical piles Ø76. If higher horizontal load-bearing capacity is required, the piles are installed at an inclination so that combined compression/tension can be utilised.
- The values in the diagram are based on geostatic calculations; in tests, higher load-bearing capacities are achieved.



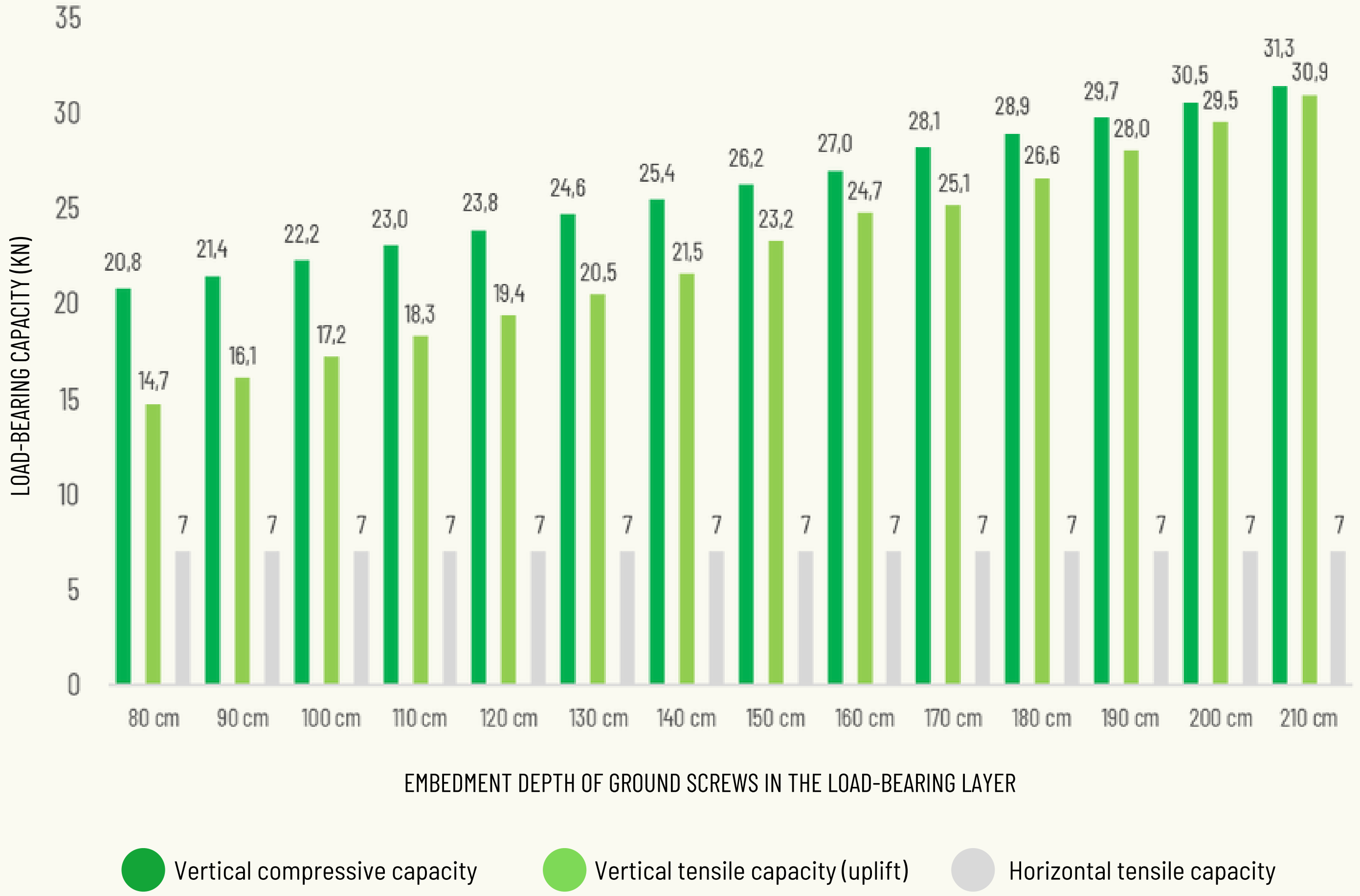
Last updated in June 2025, BAYO.S Ground Screws

# LOAD DIAGRAM
## Ø89 T12 GROUND SCREWS

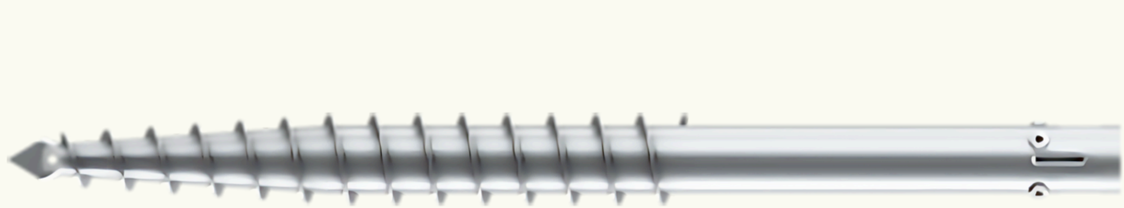
The load-bearing capacity is given in kilonewtons (kN), where 1 kN corresponds to 100 kg.

From the diagram it can be seen that a screw installed 80 cm into the load-bearing layer can take a vertical compressive load of 20.8 kN, corresponding to 2,080 kg.

Data sheets for our complete PROF range can be found on our website: www.bayosystem.com.




- The listed values were determined for clay soil with an undrained shear strength (Cu) of 200 kPa.
- The lateral load is limited to a constant maximum of 7 kN for vertical piles Ø89. If higher horizontal load-bearing capacity is required, the piles are installed at an inclination so that combined compression/tension can be utilised.
- The values in the diagram are based on geostatic calculations; in tests, higher load-bearing capacities are achieved.



Last updated in June 2025, BAYO.S Ground Screws