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Foundations for projects that matter

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Special foundations.
Deep excavations.
Ground improvement.

Technologies and project references in Romania



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Geotechnical expertise tailored to each project

Solutions adapted to ground conditions, structures and construction requirements.

Special foundations

Bored piles, CFA piles and micropiles to carry structural loads.

Deep excavations

Diaphragm walls, retaining systems and
anchors for underground works.

Ground improvement

Rigid inclusions, stone columns and grouting treatments.

Infrastructure / Buildings / Industry and logistics / Energy / Water infrastructure

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Technology selection starts with the ground

Key solutions for foundations, earth retention and strengthening.

BORED PILES

Temporary casing, bentonite or polymers

CFA

Continuous flight auger drilling and concrete pumping

DIAPHRAGM WALLS

Retaining walls for deep excavations and underground structures

RIGID INCLUSIONS

Ground improvement and settlement control

MICROPILES AND ANCHORS

Strengthening, restricted access and slope stabilisation

SHEET PILES

Structural elements used as retaining walls

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Bored piles

Deep foundations for structures carrying substantial loads.

Construction methods

Dry drilling, cased drilling or drilling under supporting fluids. The method depends on ground and groundwater conditions.

Applications

Buildings, bridges and industrial structures. Secant or contiguous pile walls for excavation support.



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CFA: continuous flight auger piling

A controlled sequence of drilling, concreting and reinforcement.

01 DRILLING

Continuous flight auger advanced
to the specified depth.

02 CONCRETING

Concrete pumped through the hollow
stem as the auger is withdrawn.

03 REINFORCEMENT

Reinforcement cage inserted into
the fresh concrete.

A foundation solution with low vibration levels. Construction parameters and suitability are established for each site.

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Diaphragm walls and retaining systems

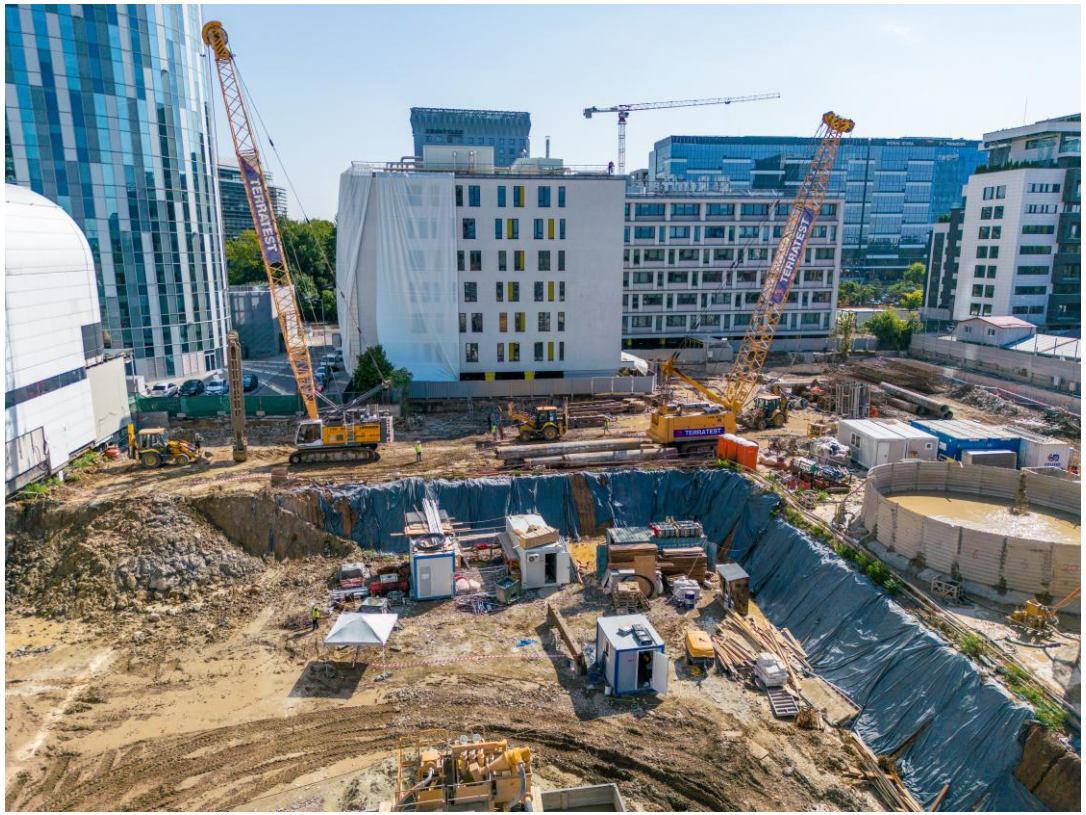
Solutions for basements, underground car parks and transport infrastructure.

Diaphragm walls

Reinforced concrete panels excavated under supporting slurry,
then reinforced and concreted using tremie pipes.

Earth retention and groundwater control

Ground anchors or steel struts, coordinated with the excavation
sequence and the drainage or dewatering solution.

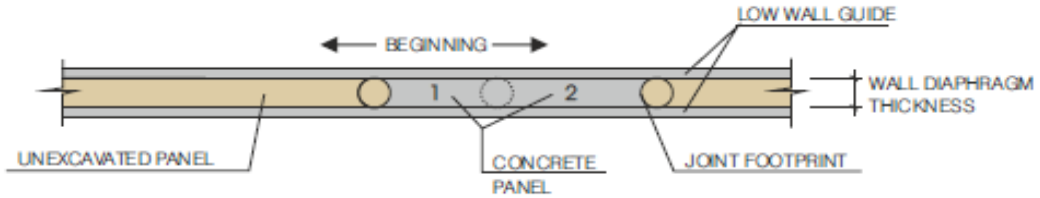


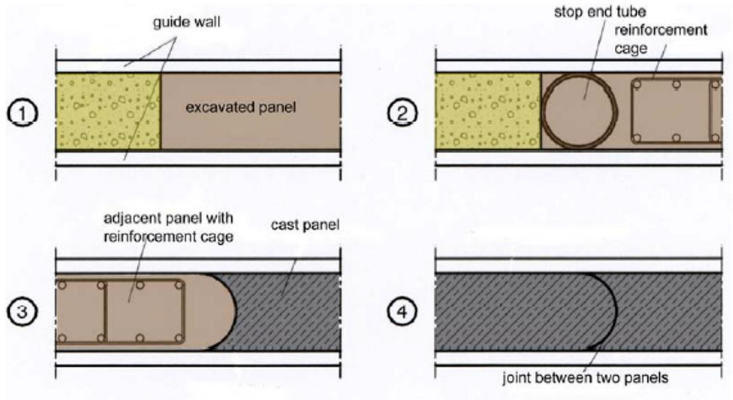
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Stop End Joints

Advantages:

- Due to its circular shape, a higher level of diaphragm wall stiffness is achieved.
- Relatively easy installation and increased flexibility during execution.
- A more practical solution for constructing circular diaphragm wall enclosures









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Steel bracing









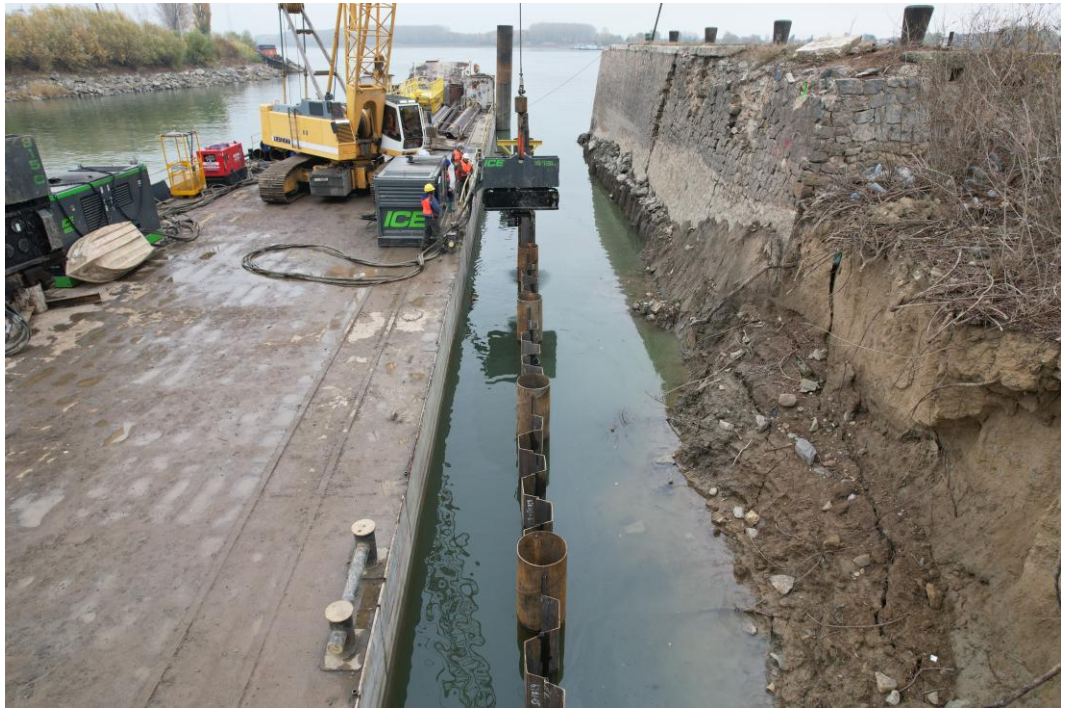




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Sheetpiles & CombiWall

Sheet piling is an earth retention and excavation support technique that retains soil, using steel sheet sections with interlocking edges. Sheet piles are installed in sequence to design depth along the planned excavation perimeter or seawall alignment





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Micropiles, anchors and slope stabilisation

Specialist works for existing infrastructure and challenging sites.

Micropiles

Small-diameter reinforced and grouted elements.
Applications:
foundation strengthening, restricted access and road works.

Ground anchors

Elements transferring tensile forces into the ground.
Applications: retaining systems and slope stabilisation.



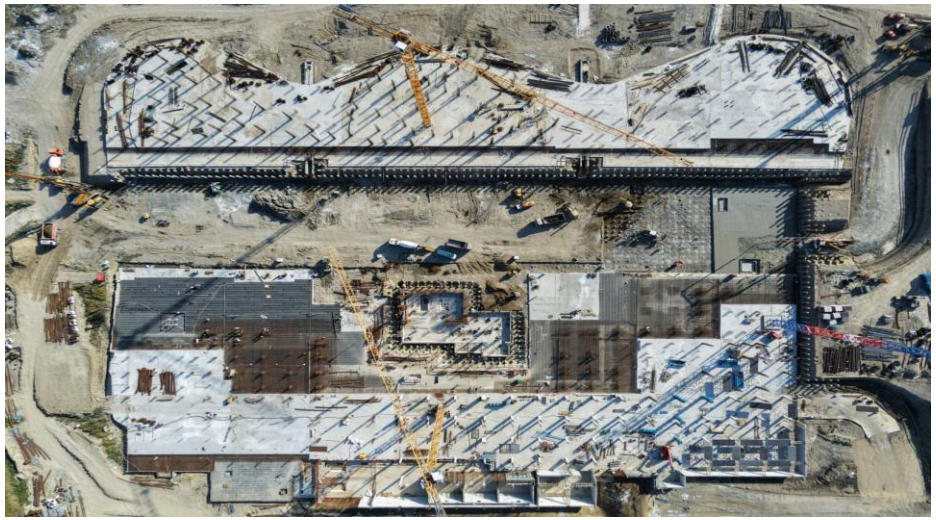
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Settlement control and bearing capacity

Solutions are designed using geotechnical investigations and loading requirements.

Rigid inclusions

Rigid elements installed in the ground to transfer loads and limit settlement in weak soil layers.



Stone columns

Compacted aggregate columns that improve the performance of the foundation ground.



Objective: compatibility between the ground, foundations and structural requirements.

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Rigid inclusions

Rigid inclusions are a ground improvement solution based on the installation of high-stiffness columns within soil layers with poor geotechnical properties. This method aims to increase the bearing capacity of the ground and reduce settlements, thereby improving the overall performance of the soil under applied loads





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Recent project references published online

Healthcare, infrastructure, culture, industry and tourism projects.



Cluj Regional Hospital



A3–DN1 Tureni Expressway



Oradea Cultural Centre



DN73 Rehabilitation



Silo Complex, Galati



OxygenHotels, Valea Doftanei

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People behind the projects

Preparing future engineers starts beyond the textbooks.



Professional training

Technical knowledge is essential, but understanding how it is applied in real-world projects is what makes the difference. Through direct exposure to technologies, foundation solutions, and construction processes, students have the opportunity to turn theory into practical experience.

Preparing Tomorrow’s Engineers

We aim to contribute to the development of a new generation of engineers who understand not only how to build, but also why a particular solution is chosen, how to respond to challenges on site, and the responsibility behind every technical decision

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Let’s discuss the right solution for your project

Terratest Geotehnic S.A. | Special foundations and geotechnical works



Dan Nicolau Constantin
Commercial Manager – South and South-East
Mob. +40 720545565
Email: constantin-dn@terratest.ro



Daniel Alucai
Commercial Manager– Center and North-West
M +40 728 970 701
Email: daniel-al@terratest.ro



Alexandru Gabriel Popescu
Commercial Manager – East si North-East
M +40 738 336 523
Email: gabriel.popescu@terratest.ro



60 Calea Floreasca Street, District 1, Bucharest, +40 21 317 89 41, office@terratest.ro

www.terratestromania.ro

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Technical references

Links to public descriptions of the technologies presented.

Bored piles, including CFA	https://terratestromania.ro/products/bored-piles/?lang=en
Diaphragm walls	https://terratestromania.ro/products/diaphragm-walls/?lang=en
Rigid inclusions	https://terratestromania.ro/products/rigid-inclusions/?lang=en
Stone columns	https://terratestromania.ro/products/stone-columns/?lang=en
Micropiles	https://terratestromania.ro/products/micropiles/?lang=en
Ground anchors	https://terratestromania.ro/products/anchors/?lang=en
Sheet Piles	https://terratestromania.ro/products/sheetpiles/?lang=en

General technical presentation. Solutions and construction parameters are established using the documentation for each project.