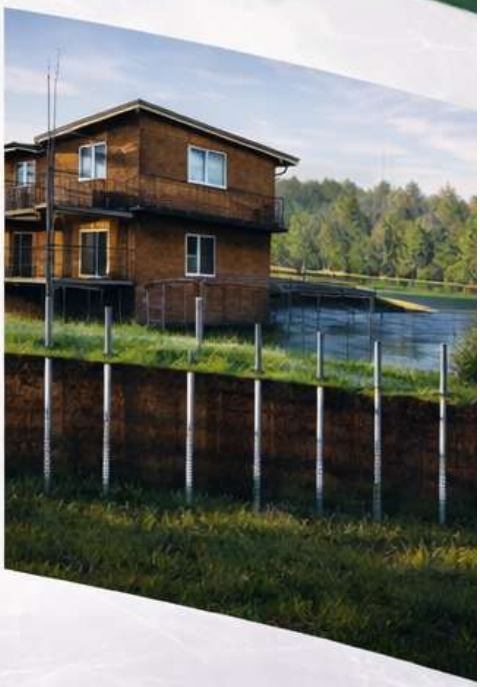
METALLIC SOLUTIONS

SCREW FOUNDATION SYSTEMS



METALLIC SOLUTIONS

ABOUT PILES IN BRIEF

DID YOU KNOW THAT

The history of piles dates back at least 6,000 years, and buildings in Stockholm and Venice are largely supported by piles!

What are foundation piles?

A foundation pile is a structural element transferring loads to deeper (often stronger) soil layers. In simple terms, forces from the structure to the soil are transmitted through friction between the soil and the pile's surface and through compression at the pile's base into the deepest soil layer.

Looking ahead

We have developed our technology to provide a competitive· solution to traditional foundation methods.
Overall, considering all processes and time required for traditional foundations, our technology offers significant savings.

Why piles at all?

Piles have been used for centuries in a wide range of applications, **especially in challenging soil conditions:**

- significantly shorter installation time
- generally higher load-bearingy capacity (especially in complex soil conditions)
- much smaller displacements.
- minimal invasiveness during installation

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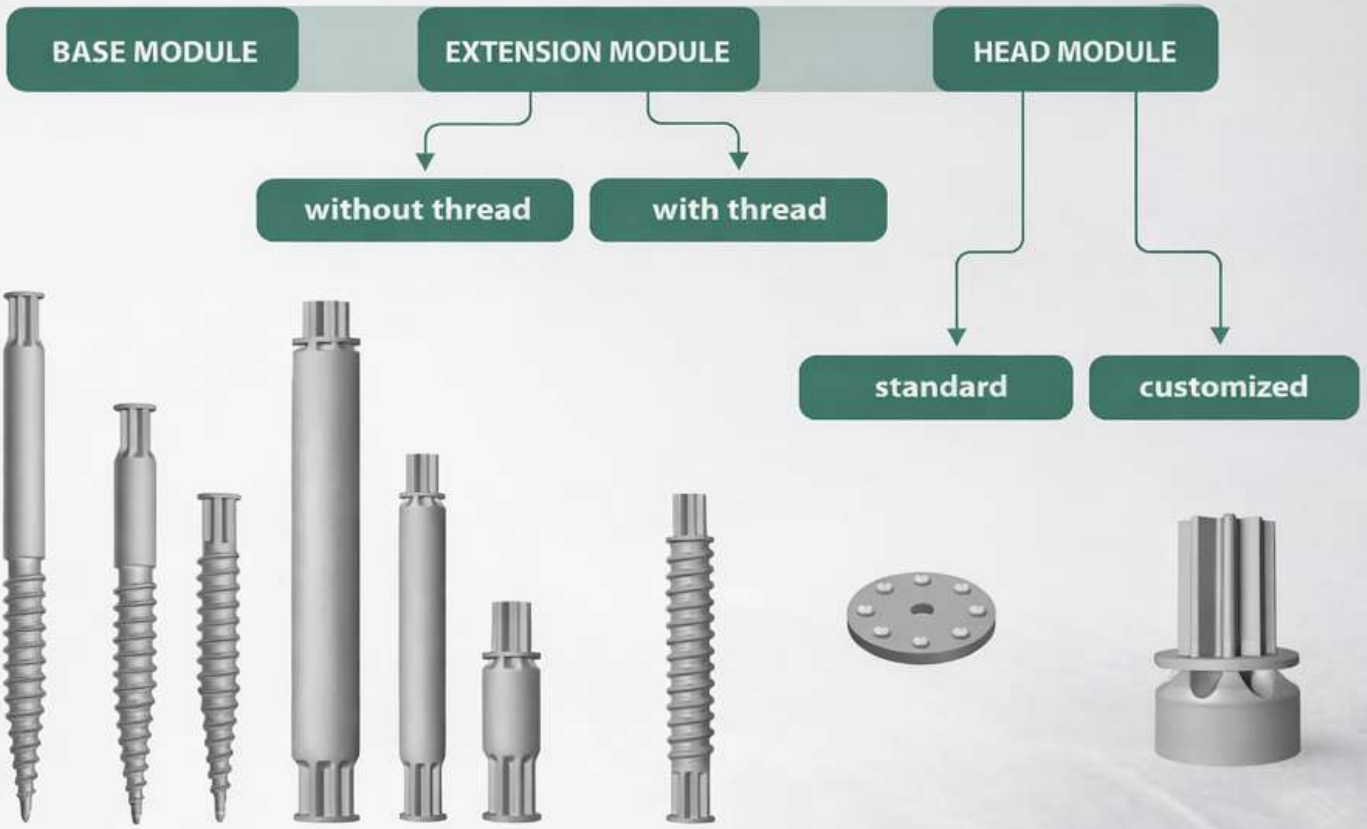
Catalogue Number	Product	Description	Wall Thickness [mm]	Weight [kg]
4410100	Base Module Ø139 x 1100 x 3,6 v2.0	WFS-BM-139-1100-36	3,6	13,0
4431000	Base Module Ø139 x 1100 x 3,6 v2.0	WFS-BM-139-1100-50	5,0	15,5
4422000	Base Module Ø139 x 1800 x 3,6 v2.0	WFS-BM-139-1800-36	3,6	18,1
4411100	Extension Module with Thread Ø139 x 1300 x 3,6 v2.0	WFS-HM-139-550-36	3,6	9,0
4428000	Extension Module without Thread Ø139 x 500 x 5,0 v2.0	WFS-HM-139-550-50	5,0	11,0
4423000	Extension Module without Thread Ø139 x 2000 x 5,0 v2.0	WFS-HM-139-1100-36	5,0	19,5
4413100	Extension Module without Thread Ø139 x 2000 x 5,0 v2.0	WFS-HM-139-550-50	5,0	19,5
4413100	Extension Module without Thread Ø139 x 2000 x 3,6 v2.0	WFS-HM-139-2000-50	5,0	25,0
4444000	Head Plate Ø139 x36 va.5	WFS-KM-139-255-25	3,6	5,2



METALLIC SOLUTIONS

Catalogue Number	Product	Description	Wall Thickness [mm]	Weight [kg]
4310000	PV Foundation screw Ø89 x 1000 x 2.0 x M12	WFS-BM-88b-1000-20	2	4,3
4311000	PV Foundation screw Ø89 x 1000 x 2,0 x M12	WFS-BM-88b-1200-20	2	5,1
4312000	PV Foundation screw Ø89 x 1700 x 3,6 x M12	WFS-BM-88b-1700-30	3,6	13,0
4313000	PV Foundation screw Ø89 x 1700 x 3,6 x with a plate	WFS-BM-88b-1700-36	3,6	13,2
4314000	PV Foundation screw Ø89 x 2400 x 3,6 x with a plate	WFS-BM-88b-2400-36	3,6	18,2
4315000	PV Foundation screw Ø89 x 2400 x 3,6 x with a plate	WFS-BM-88b-2400-36P	3,6	18,4

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OPTIONAL ELEMENTS

Material	Product	Description	Wall Thickness [mm]	Weight [kg]
4910000	Connecting Plate 200x200x12	Plate 200x200	12	5,7
4911000	Connecting Plate 220x220x12	Plate 220x220	12	6,6
4913000	Vertical Booster Ø140x550x3,6	WFS-VB-139-550-36-0P	3,6	10,2
4435000	Vertical Booster Ø140x550x5,0	WFS-VB-139-550-50	5,0	15,2
4420000	Horizontal booster A	WFS-HN-152-490-40	4,0	9,4

REINFORCEMENTS (boosters)

- Increased horizontal load capacity

- Increased vertical load capacity

CONNECTING PLATES

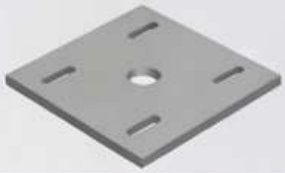


Plate 200x200

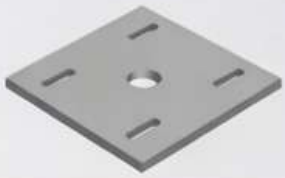
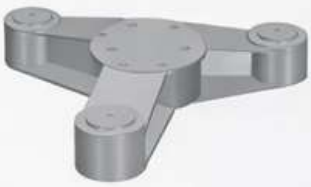


Plate 220x220

CROSS BEAMS

- for 2 piles

- for 3 piles



- for 4 piles

- custom-designed

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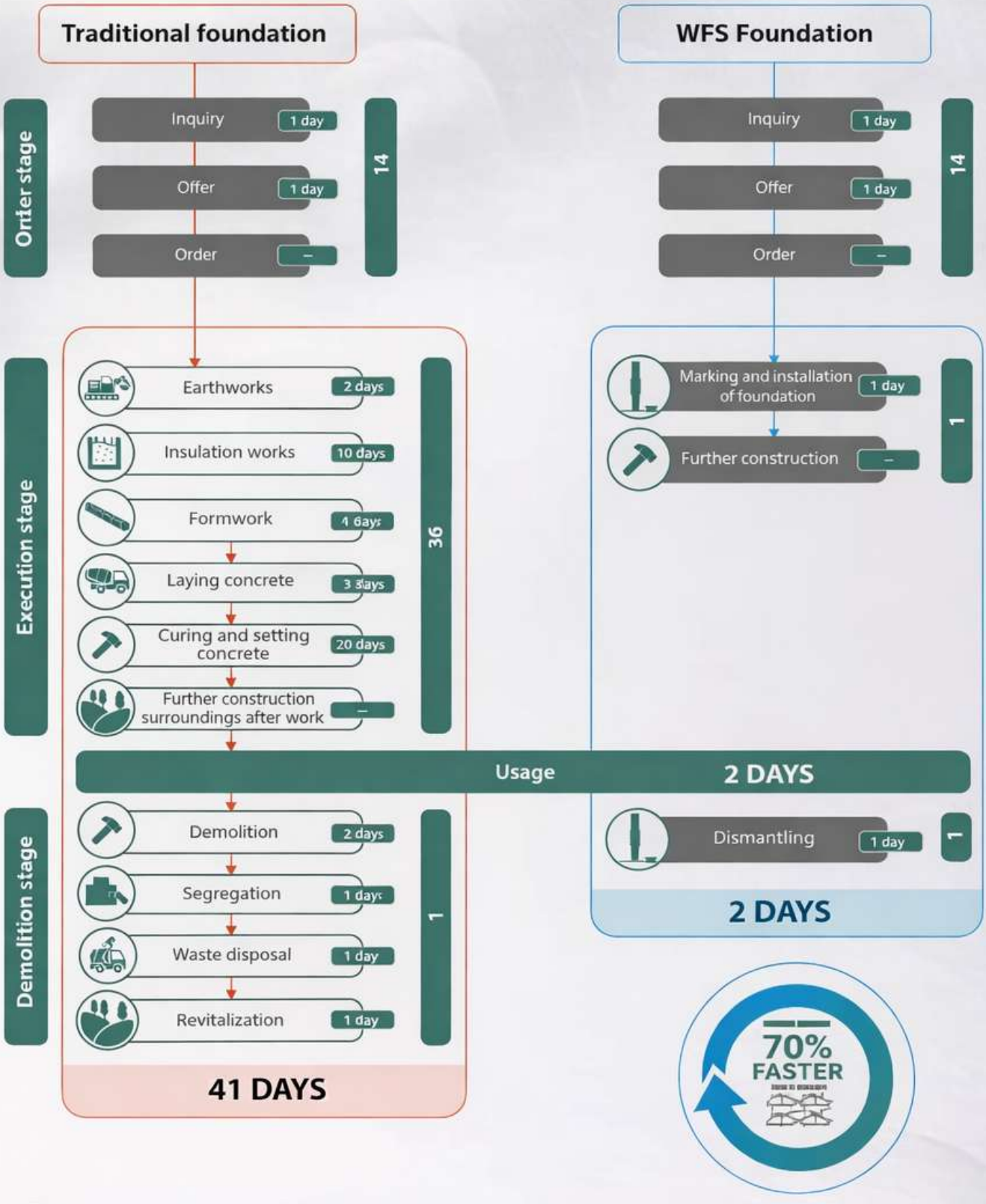
WE SAVE YOUR TIME



Full dependency on:
- uneven wet conditions
- complex supply chain, diverse eequipment, and various contractors

Full independence from:
- wet/uneven conditions
- minimizing potential delays and ther impact on further work

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LOAD CAPACITY TESTING

External load capacity

- **Pressing test**
  EN ISO 22477-1

- **Pull-out tes**
  EN ISO 22477-2

- **Horizontal load test**
  EA PFAHLE

Internal load capacity
EN 1990 + EN 1993

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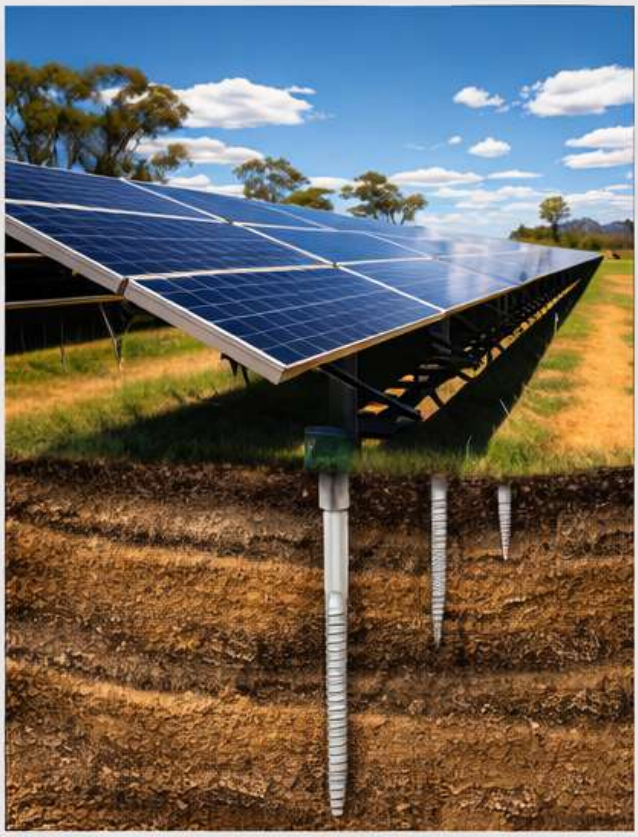

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