

PROFESSIONAL RANGE

Installation and testing

Technical documents

CE | EN 1090 | ISO 1461 | EPD

For modular structures, industrial and special projects.



MARTETIC®
screw-in metal foundation



NO
CONCRETE

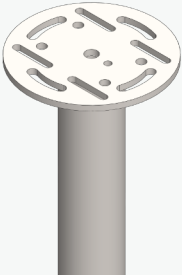
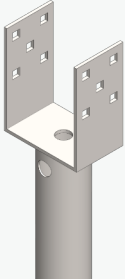


NO
EXCAVATION

THE MARTETIC RANGE

Four directions. One purpose.

Choosing starts with what you are building and continues with the ground, the depth, the loads and the connection to the structure.

			
G posts and fences	M platforms and structures	V modular depth	CUSTOM adapted parts

G - for vertical elements

G4 × M12 or G3 × M16 fixing for fences, posts, gates, panels and signage.

M - fixed flange

Round welded flange for platforms, containers, modular houses and LSF, Timber Frame or steel frames.

V - modular system

Tip, extension and flange supplied separately. The system can be configured for additional depths.

Custom - made for the project

Flanges, holes, heads, gussets and stiffeners adapted to the requirements of the structure.

Terminology

Foundation screws are also searched for as screw piles or steel piles. The name does not, however, replace the technical selection of the product.

G SERIES

Direct fixing for posts and vertical elements

A clear range for fences, gates, signage and small structures. Height, wind and ground must be taken into account for each project.



Where it fits

- fences and gates;
- posts for light lighting;
- panels and signage;
- vertical elements and small structures.

Fixing

G4 × M12 for connecting posts or connecting parts with a rectangular section.

G3 × M16 for connecting elements with a circular section.

Standard model	Fixing	Indicative use
G Ø76 × 2.7 × 800 mm	G4 × M12 / G3 × M16	Fences and posts for light applications
G Ø76 × 2.7 × 1,200 mm	G4 × M12 / G3 × M16	Taller posts or a deeper bearing layer
G Ø89 × 2.7 × 1,200 mm	G4 × M12 / G3 × M16	Vertical elements with higher loads

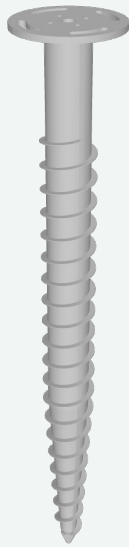
Mind the wind

A tall post or a panel with a large surface is not chosen by the screw diameter alone. The ground, height, lever arm, stiffness and the spacing between supports all matter.

M SERIES

Fixed flange for platforms and structures

The M Series uses a round flange, ready for connecting base plates and timber or steel frames.



Typical applications

- terraces and platforms;
- modular houses and containers;
- LSF and Timber Frame structures;
- HEA/IPE frames and professional projects;
- masts and equipment, after verification.

Connecting the structure

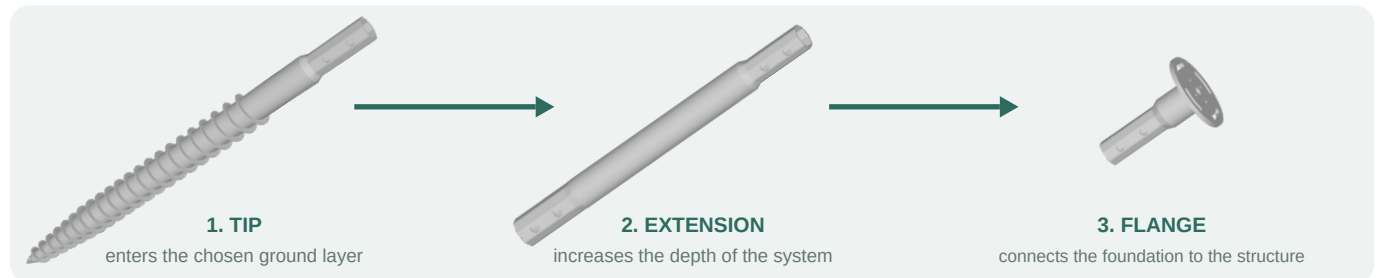
The position of the holes, the size of the base plate, the type and diameter of the fasteners, and the stiffness of the connection are determined according to the structure, the loads and the details of each project.

Standard model	Flange / thread	Indicative use
M Ø76 × 3.6 × 1,200 mm	Ø200 × 8 mm - M16, 15 × 3 mm thread	Small platforms, terraces and light structures
M Ø76 × 3.6 × 1,500 mm	Ø200 × 8 mm - M16, 15 × 3 mm thread	Light timber frames and modular buildings
M Ø76 × 3.6 × 2,000 mm	Ø200 × 8 mm - M16, 15 × 3 mm thread	Light structures that need a greater foundation depth
M Ø89 × 3.6 / 4.5 × 1,500 mm	Ø220 × 12 mm - M24, 20 × 3 mm thread	Modular houses, LSF and residential structures
M Ø89 × 3.6 / 4.5 × 2,000 mm	Ø220 × 12 mm - M24, 20 × 3 mm thread	Modular houses and steel structures, for greater depths
M Ø89 × 3.6 / 4.5 × 2,500 mm	Ø220 × 12 mm - M24, 20 × 3 mm thread	Projects with a deeper bearing layer, sized through design
M Ø114 × 4.5 × 1,500 mm	Ø220 × 12 mm - M24, 20 × 4 mm thread	Heavy structures, steel frames and high loads
M Ø114 × 4.5 × 2,000 mm	Ø220 × 12 mm - M24, 20 × 4 mm thread	Heavy structures and deep foundations, per project

V76 / V89 / V114 MODULAR SYSTEMS

Three diameters. The same modular logic.

The tip works in the ground, the extensions take the system to the required depth, and the flange connects it to the structure.



V76	V89	V114
The most flexible modular range	For structures and great depths	For heavy loads and large projects
Ø76 mm	Ø89 mm	Ø114 mm
TIP 1,200 / 1,500 / 2,000 mm	TIP 1,500 mm	TIP 1,500 mm
EXTENSIONS 500 / 1,000 / 1,500 / 2,000 mm	EXTENSIONS 1,000 / 1,500 mm	EXTENSIONS 1,000 / 1,500 mm
FLANGE round flange Ø200 × 8 mm	FLANGE round flange Ø220 × 12 mm	FLANGE round flange Ø220 × 12 mm
INDICATIVE APPLICATIONS platforms, light construction and projects where the depth must be adjusted on site.	INDICATIVE APPLICATIONS modular houses, containers, platforms and steel frames, after technical selection.	INDICATIVE APPLICATIONS demanding structures, tall elements and industrial applications. Gussets available in certain configurations.

The right choice is not made by diameter alone

The system is configured according to the project and the real conditions on site.

- | | | | |
|---|---|--|--|
| <p>1 GROUND</p> <p>stratification, obstacles and water level</p> | <p>2 DEPTH</p> <p>position of the layer in which the tip must work</p> | <p>3 LOADS</p> <p>compression, uplift, lateral and moment</p> | <p>4 INSTALLATION</p> <p>access, torque, verticality and installability</p> |
|---|---|--|--|

SELECTION GUIDE

From project to the right family

The table is a starting point. The final selection is confirmed after the ground, structure and loads.

What you are building	Family under consideration	What must be checked
Fence, gate, post	G / M	wind, height, spacing, ground
Terrace or pergola	M76 / V76	beams, levels, ground, drainage
Tiny house or cabin	M76 / M89 / V76 / V89	weight, support points, geotechnical study
Container or modular office	M89 / V89	support points, flatness, access
Modular house / LSF / Timber Frame	M89 / V89 / V114	structural design, ground, testing
Signage and panels	G / M / custom	wind surface, moment, fixing
Mast or lighting	M / V114 / custom	wind, vibrations, uplift, lateral
Solar and equipment	G / M / V / custom	geometry, groups, corrosion, maintenance

Do not choose by area alone

Two buildings with the same footprint can have very different weights, stiffnesses and loads. The number and position of the screws are determined by the structure, not just by square metres.



DOCUMENTATION

You know exactly what you receive, the assurance of verified quality.

Technical data sheet Describes the product, its dimensions and the declared use.	Declaration of Performance - DoP Presents the performance declared by the manufacturer.
CE marking Applies to products covered by the harmonised standard.	EN 1090 and EXC2 Documentation for structural steel components, within the applicable scope.
Hot-dip galvanising ISO 1461 The corrosion-protection standard for the covered products.	EPD Environmental declaration available.
Traceability Each delivered product can be identified by its manufacturing code and batch.	Acceptance report and records Confirms the works and checks actually contracted and carried out.

CE

conformity

EN 1090

structural components

ISO 1461

hot-dip galvanising

EPD

covered products



PROJECTS

Products are best seen in real projects

Each project has different dimensions, ground conditions and structural requirements. The images below show screw-in metal foundations made by the Martetic team and adapted to each site and type of construction.



Timber Frame house

Screw foundation and platform prepared for the timber structure.



Tourist complex

Foundations built for a complex with several accommodation units.



Tiny house with deck

A complete and stable base for the building and the exterior works.



HEA structure on screw foundations

On a mountain peak, where a classic concrete foundation would have been almost impossible to build, Martetic completed the foundation for the eagle aviary in a single day. The foundation screws let us work quickly, without major excavation, without concrete and with minimal intervention on the ground.

Buildings and platforms

modular houses, tiny houses, containers, terraces, pergolas and glamping.

Construction sites and technical projects

temporary lighting, fences, signage, equipment and site setup.

Professional structures

LSF, Timber Frame, HEA/IPE, masts and industrial applications.

Difficult ground and access

level differences, narrow spaces and sites with utilities, after assessment.



CONTACT US

Tell us what you want to build.

We help you choose the right option for your project.

SITE

martetic.com



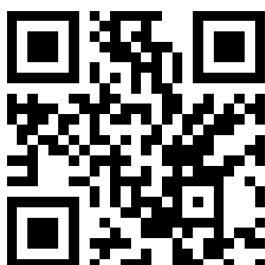
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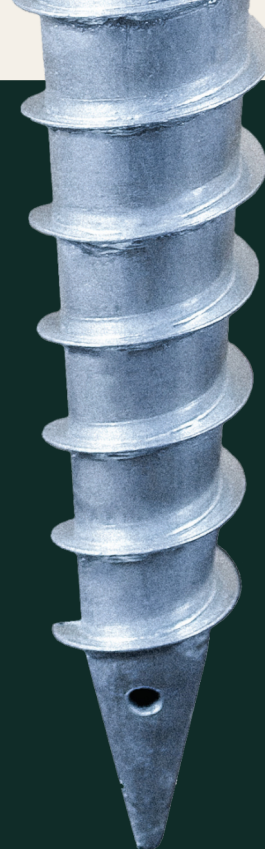
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SCREW FOUNDATIONS · INSTALLATION · TESTING

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