

Customize your metal tactile paving system

T-METAL



BROCHURE
APRIL 2023



Refer to technical standards to customize



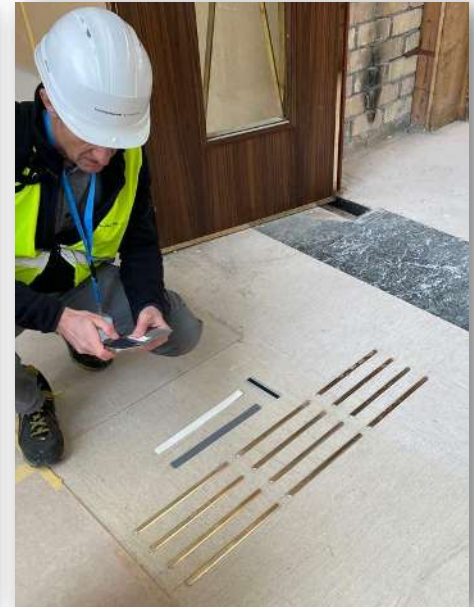
T - METAL

T-METAL SYSTEM

T-Metal tactile system is a customizable product that can be produced with different types of metals such as **Aluminium, Steel, Brass and Bronze**.

Aiming at the mobility of people with visual impairment, the customized elements of specific architectural value and minimal impact, they must be built in compliance with the dimensional parameters of the reference technical standards such as ISO/FDIS23599 and CEN/TS15209.

The modular elements formed by stripes for direction and domes for attention, correctly arranged with appropriate "DIME"s according to the needs, contain basic tactile codes allowing the blind and visually impaired to orient themselves through the tactile-foot and manual sense (the white cane), hearing, brightness contrast.



T-METAL CODES

EXAMPLES OF ATTENTION CODE

Consisting of spherical or truncated conical domes which will be arranged in a parallel or diagonal grid with special "DIME"s useful for complying with the dimensional parameters of the reference technical standards to signal attention and/or a source of danger.

EXAMPLES OF STRAIGHT CODE

Made up of a series of trapezoidal or sinusoidal stripes with outlined or rounded edges arranged side by side with special templates useful for complying with the dimensional parameters of the reference technical standards to signal the direction of travel.



ALUMINIUM



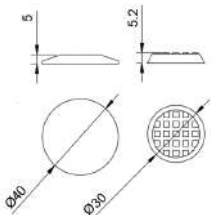
BRASS



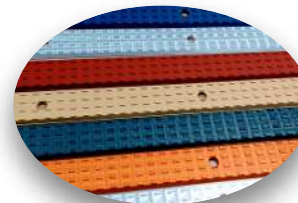
BRONZE



STEEL



*Customize
your
component*



*Other
surface
finishes*

T - METAL

Bicomponent glue installation

Substrates must be uniformly dry, mechanically resistant, free from dust, removable parts, cracks, paints, waxes, oils, rust, and anything else that could damage adhesion.

The tactile indicators must be removed from the packaging a few hours before installation and placed freely to allow acclimatization and the reduction of tension due to the packaging.

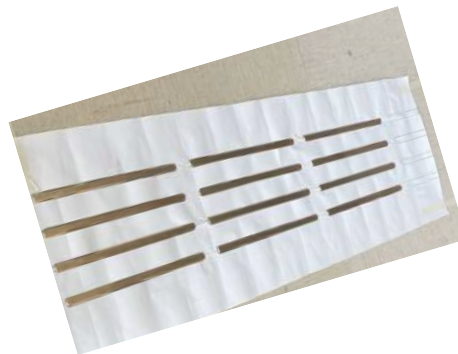
The adhesive must be carefully placed on the playing surface inside the voids of the specific templates and massaged from the centre outwards, paying particular attention to filling up to the ends of the template, to allow total contact of the product with the underlying flooring while letting any air bubbles escape from the sides.

The tactile indicators must be installed ensuring an excellent coplanarity of the reliefs, also facilitated by the high versatility of the DIME. Considering the relatively thin thickness of the tactile indicators, they do not need to be walled up or glued onto a suitable screed, as envisaged for other floors, in fact they must be placed directly on the pre-existing floor. If the Tactile Indicators show flatness defects, it is necessary to weigh down the deformed parts with sandbags or other materials until they harden.

Important warnings: do not use outdoors, on substrates subject to rising damp, on wet surfaces; on fresh asphalt (wait at least 90 days), on bituminous surfaces where there is the possibility of oil exudation.

Technical Data Temperature range: + 15° C to + 30° C Consumption: 0.30 - 0.50 kg/m² Operating temperature: from - 35° C to + 95° C - Time of complete (PRESA): a C + 23° 36 - 40 hours

If construction site requirements require rapid walkability of the artefacts, it is recommended to use a two-component glue 3M Scotch-Weld DP 105.



Installation with double tape

T-METAL tactile indicators can be equipped with factory-installed double-sided tape. To obtain maximum adhesion and laying precision, the tactile indicators must be laid with the help of the special "DIME" matrices and the laying surfaces must be clean, dry, compact, and mechanically resistant.

For preventive cleaning of surfaces, solvents with a mixture of isopropyl alcohol or heptane should be used. When using solvents, the instructions for use and the manufacturer's warnings must be observed.

The seal depends on the degree of contact between the adhesive and the surface. Applying firm pressure develops better adhesive contact and increases the seal. After application, the bond increases as the adhesive settles into the irregularities of the surfaces.

At room temperature it is possible to reach about 50% of the final hold after 20 minutes, 90% after 24 hours and 100% after 72 hours. In some cases, it is possible to increase the seal with the addition of heat (for example at 70°C for 1 hour).

Notes: The ideal temperature for applying the tactile indicators with double-sided tape is between 21°C and 38°C. Minimum application temperatures: it is not recommended to apply the tape at initial temperatures lower than the minimum indicated as the adhesive becomes too stiff to adhere. Once the tape has been applied correctly ensure surfaces are dry and free from moisture condensation. It may be necessary to prepare some substrates before fixing. Most porous (e.g., concrete) or fibrous (e.g., wood) materials need to be sealed to obtain an even surface. Some materials such as copper, brass, plasticized vinyl, must be prepared to prevent interaction between the adhesive and the substrate. Fixing to glass in a high humidity environment requires the use of an appropriate surface preparer to ensure stable fixings over time.

General: User should evaluate applications, surface treatments, solvents, paints, sealants, etc. under actual use conditions with the tape and specific media.

Important warnings: the products must be stored in their original packaging at a temperature not exceeding 23° C and not exceeding 50% relative humidity.



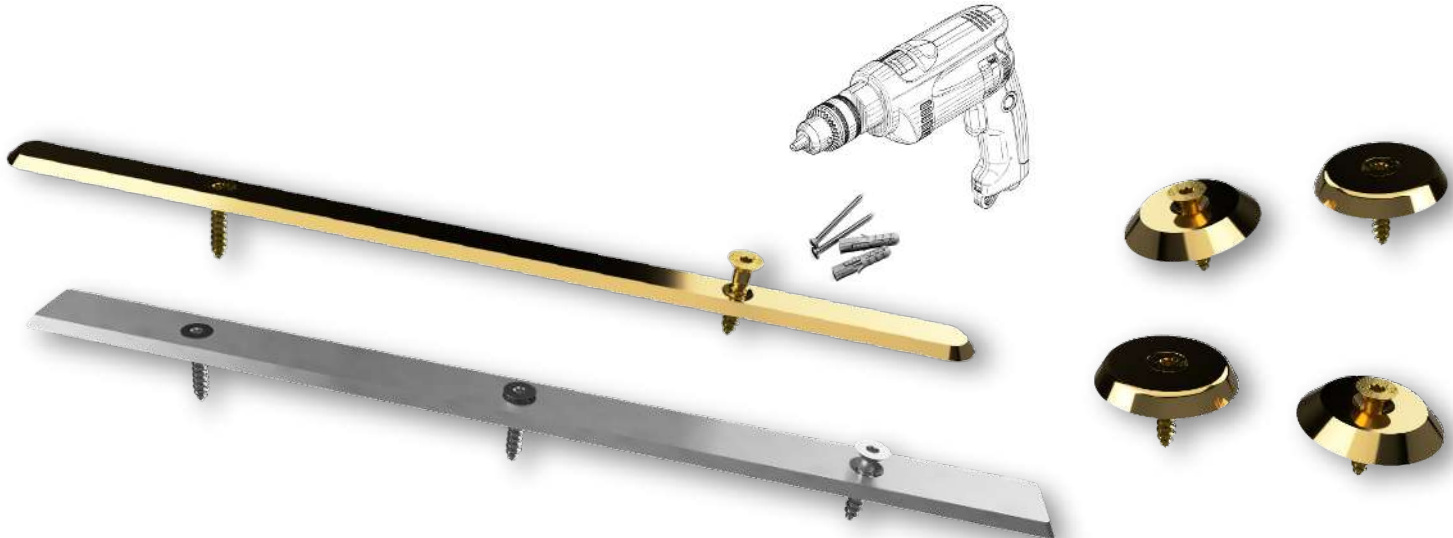
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Installation with dowels

The T-METAL tactile indicators, in addition to being installed with double-sided adhesive pre-installed in the factory and with glue, can also be installed with special dowels after drilling the surface of the tactile indicators.

For this kind of installation, the system will be supplied with special dowels and special screws perfectly designed to give uniformity and coplanarity to the tactile indicator after installation.

To install with dowels, it is necessary to have a drill with a tip suitable for the size of the plugs, arrange the indicators in the appropriate templates, mark the parts to be drilled with colour and then drill, fit the female plug in the hole and proceed with fixing of the tactile indicator with a special screw.



Notes:

[illegible]



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