

Touch the message experience the future

T - WALK



**BROCHURE**  
JANUARY 2023



*In accordance with ISO/FDIS 23599*



# T - WALK

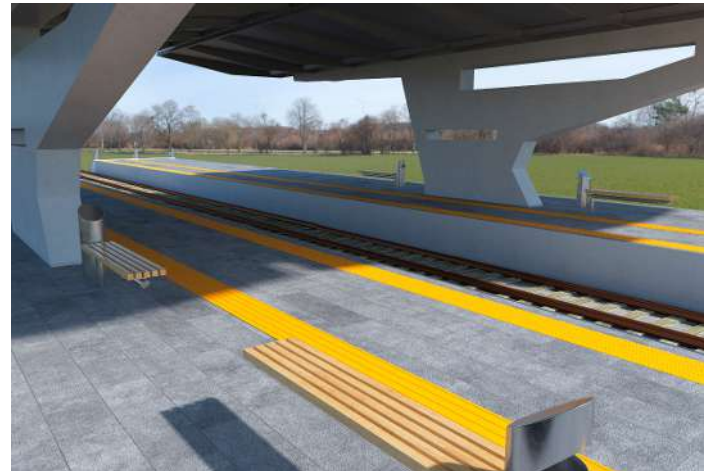
## The T-Walk system

T-walk is an integrated system of tactile signals and paths. It is designed in accordance with the ISO/FDIS 23599 regulations.

**The specific innovation of this system is to provide to visually impaired people both tactile and vocal information (only in those places where the vocal service has been activated).**

The environment must be compatible with the orientation needs of visually impaired people to guarantee them both safety and autonomy when moving. The blind or partially-sighted people use also some signals called “natural guides” to orient themselves while moving. Some examples of a “natural guide” are: the pavement’s kerb, perceptible with feet or with the white cane, a sound signal of warning, a wall that marks a space.

**The tool that allows the sensory access to public places and spaces is the Tactile Ground Surface Indicators (TGSi).**



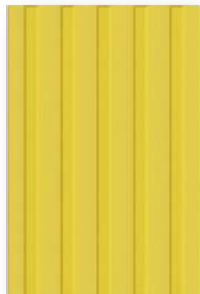
# T - WALK



**HOW THE SYSTEM WORKS WITH TAG RFG**

## Components

### STRAIGHT 40X60 or 40X40

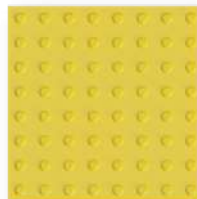


It consists of a single tile in M-PVC-P size 40x60 or 40x40 cm with parallel lines. It indicates the



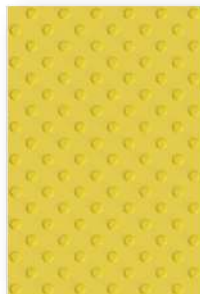
straight direction.

### ATTENTION PATTERN HO 40X40



It consists of a single tile in M-PVC-P size 40x40 cm with truncated domes arranged in a parallel pattern. It is installed along the walking path to indicate a change in direction towards two or three paths, it is also installed near pedestrian crossings.

### STOP / DANGER DI 40X60



It consists of a single tile in M-PVC-P size 40x60 cm with truncated domes arranged in a diagonal pattern. It indicates a potential danger.

### STOP / DANGER DI 20X60



It consists of a single tile in M-PVC-P size 20x60 cm with truncated domes arranged in a diagonal pattern. It can be combined with the Stop/Danger code 40x60 cm along the platform to raise the colour contrast. It can be installed alone for the rapid securing of working railway and tramways platforms.












All the tiles are integrated with RFG tags 134.2 Khz.



## Item specifications T-WALK made of M-PVC-P

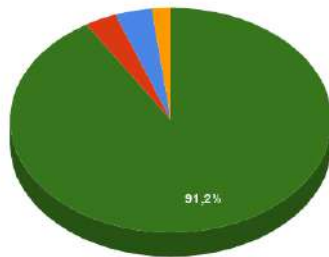
Tactile surface with equidistant trapezoidal reliefs “olivella” finished mm 2x1 and with conic-sawn-off studs arranged in a parallel pattern. It is designed in accordance with the ISO/FDIS 23599 regulations, made of polyvalent M-PVC-P. When integrated with TAG-RFG 134.2 Khz, it can be used to make smart paths. It fits both for inner and outer installation. Technical specifications below:

DESCRIPTION	UM	VALUE	TESTING METHOD		AVAILABLE COLOURS	VALUE LRV
Friction coefficient	μ	> 0,40	B.C.R.A. method			
IRemaining track	mm	0,1	EN433		<b>YELLOW 3F9</b>	<b>37</b>
Wheelchair	-	suitable	EN425		<b>YELLOW 3FA</b>	<b>70</b>
Electrical insulation	ohm	1010	DIN 51953		<b>WHITE 232B</b>	<b>83</b>
Resistance to chemical product	-	suitable	DIN 51958		<b>GREY 1B82</b>	<b>23</b>
Resistance to fire	-	B-fl/s1	UNI EN 13501-1		<b>RED BC3</b>	<b>10</b>
Hardness	Shore A	94 +/- 2	ISO 868		<b>CHARCOAL 1B68</b>	<b>8</b>
Xenon arc aging test (with anti-UV)	h	> 300	UNI EN ISO 4892-2		OTHER COLORS ON REQUEST	
Heat insulation	W/mk	0,12	DIN 52612			
Specific weight	gr/cm³	1,24+/- 0,02	ISO 1183			
Failing load (after 168h at 100 °C) °C)	N/mm²	19	CEI 20-34			
Stretch (after 168h at 100 °C)	%	305	CEI 20-34			
Thermal stability	min	35	CEI 20-34			
Twisting stability	°C	-20	ASTM D 104			
Slipperes test	-	R 11	DIN 51130			

## What do users think about the innovation

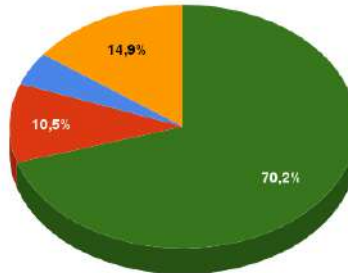
The Tactile Ground Surface Indicators (TGSi) **T-Walk** is designed in accordance with the ISO/FDIS 23599 regulations. It allows blind or partially-sighted people to reach the destination through the scan of a tactile map, if present, the feet-sense-of-touch and the manual feedback (the white cane) or even, for partially-sighted persons, the chromatic contrast. **The process of orientation that these tools can provide is then structured in different stages: maps reading, information memorization, guiding path.**

*Do you think is useful the vocalization of a tactile route?*



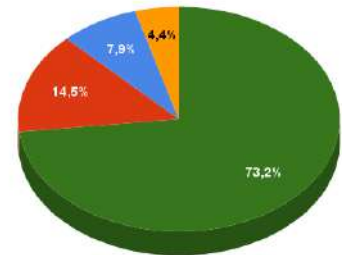
● Yes ● No ● If no, why not ● No answer

*If you could choose would you like that the voice message was sent from the:*



● Headset ● External mini speakers ● Mobile phone hands free ● No answer

*Do you believe that the T-WALK system meets the needs of blind and partially sighted most of the current system?*



● Yes ● No ● If no, why not ● No answer

**The T-Walk System makes the knowledge procedure of the environment and the orientation PRECISE and IMMEDIATE** thanks to the RFG (Radio Frequency Ground) technology that, if integrated with the plantar-tactile system, gives vocal information in the right point of contact between a specific hardware and the pavement implemented with RFG detectors.

## Installation with glue

The glue to be used is a polyurethane adhesive made up of two elements with high tenacity and low viscosity: Component A (polymer polyurethane) and Component B (hardner).

The components need to be carefully mixed together to get a paste, that can easily be affixed with a trowel, a roller or a squeegee. The base must be evenly dry, sound, free from dust or removable parts, without cracks, paint, wax, oil, rust and anything else that may affect the adherence. Tiles must be got out from their packaging a few hours before installation and laid down: they need to acclimatize and loose the internal stress.

The glue must be carefully manipulate and mixed from the center outwards. Pay attention to mix also the side parts and to let bubbles come out.

Tiles are to be laid in order to assure a good coplanarity. They should be fixed on existing pavement, there is no need to remove or polish it. Tiles are quite thin, then you are not needed to glue them on a screed, as needed for other kind of pavement.

In case tiles have planarity defects, it is needed to put sand sack or something heavy on deformed section and maintain them until the glue is hardened.

Warning: don't use on surfaces where humidity can easily return, on wet surfaces or on not-dry asphalt (wait 30 days at least), on bituminous surfaces where oil could easily exude.



## Installation with double sided tape

A polyester film heavily coated on both sides with acrylic glue could be used to fix the product both on smooth or even on irregular surfaces.

To obtain the expected outcome, installation surfaces must be clean, dry and solid. To clean the surfaces before the installation, solvent like isopropyl alcohol mixed with water or heptane is to be used. When using those solvents pay attention to instruction and warnings on the label.

The endurance would be much stronger, if a hard pressure is used after the tiles have been laid. The fixing is at 50% after 20 minutes, 90% after 24 hours and is complete after 72 hours. Sometimes it could be useful to use warm air (ex: 70° for 1 hour) to obtain a better impermeability.

Caution: products must be kept in their package at maximum 23°C and with no more than 50% humidity.





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