

1. PRODUCT IDENTIFICATION

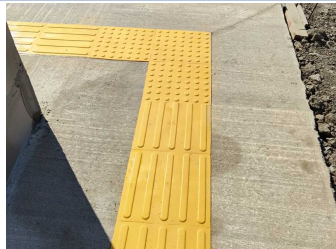
Trade name	TPU tactile tiles 300 × 300 and 400 × 400 mm – "Warning" and "Guidance"
Base material	Thermoplastic polyurethane (TPU)
Models	"Warning" – truncated domes; "Guidance" – parallel flat-topped bars
Standard colours	Yellow; graphite and black; other colours on request
Intended use	Tactile walking surface indicators for visually impaired people – sidewalks, pedestrian crossings, building entrances and stairs, stops and transport hubs. For indoor and outdoor use.
Manufacturer	TERENO ECO Ltd, Straldzha, Bulgaria



"Warning" 400 × 400



"Guidance" 400 × 400



Installed tiles

2. DIMENSIONS AND WEIGHT

Parameter	300 × 300 mm	400 × 400 mm
Tile dimensions	300 × 300 mm	400 × 400 mm
Total height	8 mm (3 mm base + 5 mm relief)	8 mm (3 mm base + 5 mm relief)
Tiles per 1 m²	11.11	6.25
Weight per tile	310 g	730 g ± 3 %

3. CHARACTERISTICS AND TESTING

Relief height and dimensions, luminance contrast and light reflectance have been tested to ISO 23599:2019 – test reports No. P-171-1, P-172-1, P-173-1 and P-174-1 of 19.10.2026 by the testing laboratory of Research and Certification Center for Building Materials Ltd, Sofia, Bulgaria (12 specimens of each variant):

Variant, mm	Test report No.	Relief height, mm	Dome top diameter / bar top width, mm	Dome spacing / bar length, mm	Luminance contrast, %	Light reflectance, points
"Warning" 300 × 300	P-171-1	4.8	20	61	51	44
"Warning" 400 × 400	P-172-1	4.2	17.4	56.7	59	45
"Guidance" 300 × 300	P-173-1	4.6	28.4	270.3	54	43
"Guidance" 400 × 400	P-174-1	4.5	25.6	370.0	56	47
Tolerance (per test reports)		4 – 5	12 – 25 / 17 – 30	50 – 68 / ≥ 270	> 30	> 40

Slip resistance: class R11 to DIN 51130:2014 – declared by the manufacturer; not measured by the laboratory.

Layout, dimensions and visual contrast of tactile indicators in buildings and streets follow Bulgarian Ordinance No. RD-02-20-2 of 2021; contrast is achieved by choosing the colour against the surrounding pavement.

4. INSTALLATION AND MAINTENANCE

Substrate: asphalt, concrete, granite or tiles – sound, level, dry, clean and degreased. No removal of the existing pavement is needed.

Bonding: two-component polyurethane adhesive, consumption 1.2–1.5 kg/m² depending on the substrate. Mask the outline with paper tape, spread the adhesive evenly, lay the tile and press it over the whole area.

Curing: remove the tape immediately; open to pedestrians after the adhesive has fully cured.

5. NOTES

Dimensions and weight are nominal values given for customer information; the test results in section 3 apply to the tested specimens. This data sheet is not a declaration of performance. It is valid from its issue date and supersedes all previous data sheets for the product, including revision 1 of 21.10.2026.

Approved by: Valeri Donchev, Managing Director.