



Durotact Tactiles are manufactured in a ISO 9001 : 2015 certified state of the art manufacturing facility, that houses the best in class Injection Moulding Machinery. The raw materials used for manufacture of Duratact Tactiles are of the highest quality that ensures long life, high resistance to wear and tear as well as resistance to colour fade due to exposure to UV radiations. Product is manufactured under stringent quality control, facilitating defect free supply to the end customers. The high capacity production house ensures execution of orders in very short time span.

Technical Specifications

Type	Tile	Strip	Stud	Strip	Stud
Application	Adhesive/Screwed/Set-Adhesive with 3M tape	Self-Adhesive with 3M tape	Self-Adhesive with 3M tape	Screwed with 1 mm washer, self tapping screw, screw plug & end cap	Screwed with 1 mm washer, self tapping screw, screw plug & end cap
Dimensions	300 mm x 300 mm	300 mm x 30 mm	25 mm Diameter	300 mm x 30 mm	25 mm Diameter
Height	6 mm	6 mm	6 mm	6 mm	6 mm
ISO 23599-2012	Compliant	Compliant	Compliant	Compliant	Compliant
Material	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Warranty	3 Years	3 Years	3 Years	3 Years	3 Years
Indoor Use	Yes	Yes	Yes	Yes	Yes
Outdoor Use	Yes	Yes	Yes	Yes	Yes



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A Step Towards Inclusivity

Tactile technology for the visually impaired



DUROTACT

Navigating public places like busy city streets, railway stations etc. can be chaotic for any pedestrian these days due to heavy traffic and overzealous drivers. But for people with visual impairments, you can imagine, this can be exponentially more difficult and dangerous. Thankfully, a man named Seiichi Miyake created an invaluable tool that has helped make things a whole lot safer for such people, through the decades.

Inspired by a close friend who was slowly going blind, Miyake, a Japanese inventor, invested his own money into an innovation originally known as Tenji blocks. Now more commonly referred to as tactile blocks/domes, the bright bumpy surfaces are like braille on pavement. They are intended to alert visually impaired pedestrians of upcoming dangers, like sidewalk curbs, train platform edges or junctions in walkways.

While those with severe sight loss aren't able to perceive the bumps' signature colours, they are able to detect the texture with their shoes or by using a long cane or with the help of a guide dog.

While you may be familiar with the common surfaces, you may not have probably noted that there are two different types of textures to Tenji blocks: dots and bars. The dotted blocks are the ones intended to inform those with visual impairments about upcoming hazards like crosswalks. But the bars are something different – they are meant to give directional cues so that people know they are on a safe path.

Tactiles for outdoor usage are generally made of ceramic. For indoor usage in railway platforms, malls, public and private offices etc. tactiles made of Polyurethane are the ideal choice. These tactiles have advantage of very high life span and resistance to colour fading.

- Polyurethane tactiles can be fixed on various substrates, including:**
- Concrete:** such as footpaths, staircases and pedestrian crossings.
 - Asphalt:** such as roads and driveways.
 - Pavers:** stone surfaces such as paving stones, tiles, or natural stones like granite, marble.
 - Metal:** can be fixed onto metal surfaces like steel or aluminium commonly used in railway stations, airports and other transportation facilities.
 - Wood:** such as decks, ramps and bridges.
 - Fiberglass:** boat decks, pool decks, water parks etc.
 - Carpets:** These can also be fixed on Carpet/Carpet Tiles.

DUROTACT POLYURETHANE TACTILES

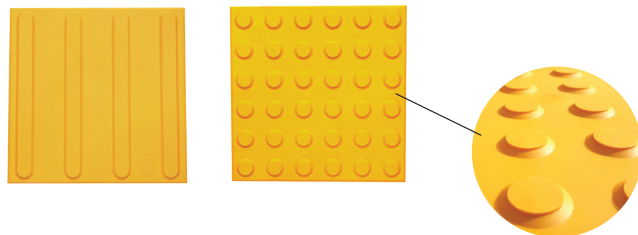
Tactile Tiles:

Tactile Tiles with Directional Pattern (Self-Adhesive)

These are available as square tiles of size 300 x 300 mm, double sided sticker covering the whole base or double-sided adhesive tapes on edges and center, for easy peel and fix installation.

Tactile Tiles with Warning Studs (Self-Adhesive)

Hazard warning tactiles have 36 studs on top surface, dimension of 300 x 300 mm with similar double-sided sticker on the bottom surface as mentioned above.



Tactile Strips & Studs:

a) Tactile Directional Strips (Self-Adhesive)

Directional Strips are long strips of size 30 x 300 mm, have a textured top surface and curved ends. Installation is done as multiple linear clusters of 4 Nos. each cluster of 4 strips cover a 300 x 300 mm area. Each strip is fixed with self-adhesive 3M tapes on the bottom side.

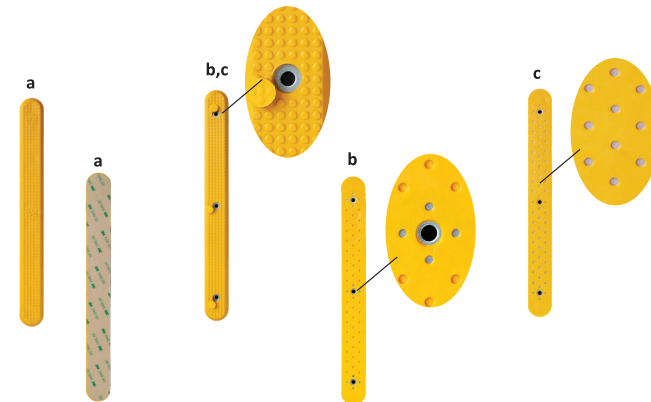
Tactile Directional Strip (Screw-fix type)

b) With Screw holes strengthened by embedded GI Washers

These are similar to above, but fixed to the ground by screws driven through three screw holes, one each at the ends and one in the middle. The screw holes are strengthened by a GI washer moulded into the body surrounding the screw hole. The screw holes are rendered invisible by closing it with matching screw caps after installation.

c) With End to End Embedded GI Strip

These strips are also fixed to the ground by three screws however the strip is further strengthened by an end to end GI plate moulded into it. Screw holes are rendered invisible by closing it with matching screw caps after installation.



Tactile Warning Studs (Self-Adhesive)

These studs have a textured top and are installed in square formation of 36 studs of diameter 35 mm. One such cluster would cover an area of 300 x 300 mm.

Tactile Warning Studs (Screw-fix type)

Similar to the above, but studs have screw holes strengthened by a GI washer moulded into the body around the screw hole. The screw holes are closed with matching screw caps after installation.



Key Features

- High resistance to abrasion.
- Slip resistant
- High performance TPU
- Quick and Easy Installation with peel and stick installation or Additional Epoxy Adhesive or screwed installation.
- High flexibility and durability
- UV resistant
- High luminance contrast
- Can be installed on any surface.
- Highly recommended for retrofitting



Comparison: Polyurethane Vs Ceramic Tactiles

Material: Polyurethane tactiles are made of a synthetic polymer, hence they are more flexible and durable.	Ceramic tactiles are made of fired clay which makes it more rigid and brittle.
Slip resistance: Polyurethane tactiles have a non-slip surface that provides excellent traction, even in wet conditions.	Ceramic tactiles can become slippery when wet, making them potentially hazardous.
Customization: Polyurethane tactiles can be easily customized to meet specific requirements, including size, shape, and color.	Ceramic tactiles are more difficult to customize and typically come in a limited range of colors and sizes.
Installation: Polyurethane tactiles are easy to install and can be installed on a wide range of surfaces, including concrete, asphalt, and tiles.	Ceramic tactiles require specialized installation techniques and may be more difficult to install on certain surfaces.
Durability: Polyurethane tactiles are highly durable and can withstand heavy foot traffic and exposure to the elements.	Ceramic tactiles are brittle and prone to damage.
Retrofitting: Polyurethane tactiles is suitable for retrofitting which makes installation more convenient.	Ceramic tactiles has to be installed in conjunction with flooring work.

