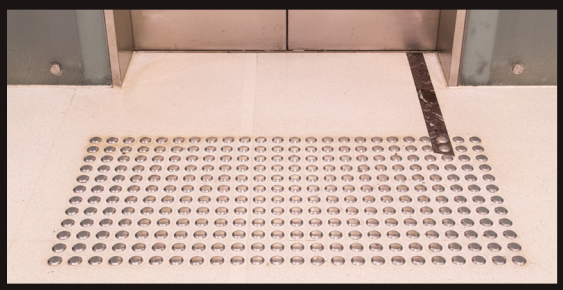
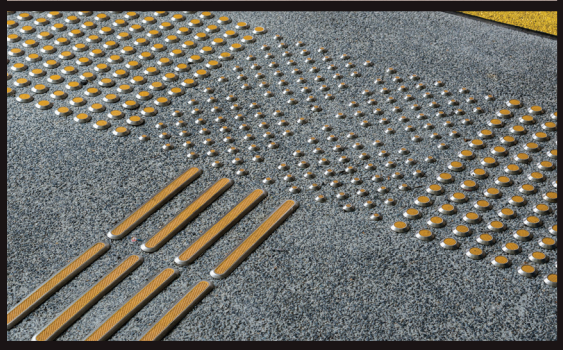
PATHWAY

GUIDANCE SYSTEM

Tactile Range





Genesis

For the Perfect Finish

+44 (0)1642 713000 info@genesis-gs.com www.genesis-gs.com

Fluted Metal Tactiles

The traditional 6mm Ø shank method or 3M adhered versions offer an incredibly versatile system that can provide an instant DDA and Equality Act 2010 compliant tactile surface to any platform edge, stairway or ramp due to their unique installation methods.

Manufactured from Stainless Steel grade 316 or Polyurethane, both of which are highly durable and offer excellent contrasting options to ensure conformity within internal and external applications.

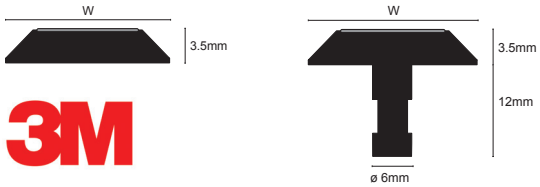
Aluminium, Brass and other design options available, minimum order quantities may apply.

Stainless Steel Tactile

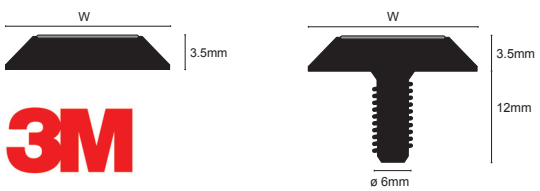
Crosshatch | Circle | Anti-Slip

01 White | 16 Black | 47 Yellow

Discs



Corduroy



The Range

Stainless Steel Discs Shanked

Code	Ø (mm)	Description	Finish
FTSSD25	25	Stainless Steel Anti-Slip Tactile	01,16,47
FTSCD25	25	Stainless Steel Circle Tactile	84
FTSCD35	35	Stainless Steel Circle Tactile	84
FTCHD25	25	Stainless Steel Crosshatch Tactile	84
FTCHD35	35	Stainless Steel Crosshatch Tactile	84

Stainless Steel Discs Self Adhesive 3M

Code	Ø (mm)	Description	Finish
FTSAS25	25	Stainless Steel Anti-Slip Tactile	01,16,47
FTSSA25	25	Stainless Steel Circle Tactile	84
FTSSA35	35	Stainless Steel Circle Tactile	84
FTSCA25	25	Stainless Steel Crosshatch Tactile	84
FTSCA35	35	Stainless Steel Crosshatch Tactile	84

Stainless Steel Corduroy Shanked

Code	W x L (mm)	Description	Finish
FTCD280	25 x 280	Stainless Steel Anti-Slip	01,16,47
FTGD280	25 x 280	Stainless Steel Grooved	84
FTCD280	25 x 280	Stainless Steel Crosshatch	84

Stainless Steel Corduroy Self Adhesive 3M

Code	W x L (mm)	Description	Finish
FTCA280	25 x 280	Stainless Steel Anti-Slip	01,16,47
FTGA280	25 x 280	Stainless Steel Grooved	84
FTCA280	25 x 280	Stainless Steel Crosshatch	84

Data Sheet - Self Adhesive 3M

Product Description

Genesis Tactiles are available with the traditional 6mm Ø Shank Method that offers an incredibly versatile system that can provide an instant DDA and Equality Act 2010 compliant tactile surface to any platform edge, stairway or ramp due to their unique installation methods.

Standard Ø 25mm with Black, White or Yellow R11 anti-slip resin inserts.

Other Sizes and colours can be made available on request.

Material

Stainless Steel is ideal for high-traffic pedestrian area incorporating a slip resistant resin with R11 rating and unique design that ensures the studs do not themselves become a hazard in wet or cold conditions.

Stainless Steel AISI 316 / DIN 1.4436 Surface 2B	
C%	0.03
Mn %	2.0
Si %	0.75
P %	0.045
S%	0.03
Cr %	-18
Ni%	10-14
N%	0.1
Mo	2-3 Max

Technical Details

Stainless Steel is a corrosion resistant chromium/ nickel alloy steel that is strong and durable with excellent lustre. However, it is not rustproof, particularly in the harsh environment of a swimming pool. Chlorine and bromine used for sanitization are highly caustic chemicals for stainless steel and heat and humidity enhance the corrosiveness of these chemicals. Regular cleaning is the best way to prevent corrosion and add to the service life for your profiles and any other stainless steel equipment.

Stainless Steel application in a swimming pool, leisure pool and more especially hydrotherapy type pools where temperatures and humidity's are likely to be even higher than modern larger "municipal" Leisure pool buildings.

Types 201,304,316 and 321 are widely used and have given excellent service when properly maintained; type 316 is preferred for its greater resistance to staining, pitting and crevice corrosion.

General Cleaning and Maintenance

It is vital to ensure that the surface is free of any dirt, oils, grease and other contamination as these will compromise the anti-slip characteristics within a short period of time.

The most common mistake made by cleaners is overusing detergents, especially using string mops.

Air dries & evaporates water leaving a detergent film on the surface. This is dangerous when water reactivates the detergent film and this may cause slips and falls.

Here are a few steps that can be followed for routine cleaning and maintenance regarding once a day, a week or as required depending on situation.

1. Sweep, if required, to remove any dry surface dirt.
2. Dilute any water based Caustic-Sodium Hydroxide free floor cleaners and scrub the surface with (warm) water. Leave for 5-10 minutes, this melts any grease and loosens any contaminants. Other water base clears may be used but ensure they have no caustics or corrosive chemicals.
3. Methylated spirit or vinegar can be used by mixing with hot water for cleaning. However a second rinse is recommended with clean water to remove any contamination.
4. Rinse, then wet vacuum the total area.
5. In smaller or residential areas, use a micro fiber mop, rinsing frequently.
6. For larger and commercial areas, clean by using an auto scrub vacuum, with brushes not pads.
7. Scrub the floor with any water based Caustic-Sodium Hydroxide free floor cleaners and leave for 5 to 10 minutes before rinsing.
8. Do not turn or rotate wheels on treated areas.
9. Do not use surface coating, sealers, abrasives (e.g. Ajax), polishes, or corrosives (e.g. caustic) are to be used on installations as these will destroy the effect of the etching and anti slip characteristics of tactiles.

Cleaning Methods for Different Conditions		
Condition Of Surface	**Cleaning Agent**	**Method of Application**
Atmospheric and construction dirt.	Soap/Detergent and water	Sponge and rag. Rinse with water then wipe dry
Heavier dirt containing oil or grease.	Organic solvents like acetone benzene and Xylene	Sponge or rag. Rinse with clean water, wipe dry. Observe PPI (goggles, gloves etc)
Rust discolouration from other materials.	Commercial pickling pastes, diluted nitric acid (15% by volume)	Clean cloth or sponge - let stand for 20 mins Rinse and repeat 20 min. Rinse and repeat if necessary. Observe PPI (goggles, gloves etc)
Heat tint or heavy discolouration.	5% oxalic acid (warm) 5-15% nitric acid or 5-10% phosphoric acid & follow with neutralizing rinse	Swab or immerse. Observe PPI (goggles, gloves etc)
Oil grease, fatty acids (without swabbing)	4-6% solution of sodium metasilicate/trisodium phosphate.	No swabbing required.
Oil grease, fatty acids (with swabbing)	Carbon tetrachloride, trichloroethylene, acetone, kerosene, gasoline, alcohol.	Rub with cloth. Observe PPI (goggles, gloves etc)
Hand and fingerprint smears.	Calcium carbonate fine powder, wax based Rub with cloth.	Rub with cloth

Installation - Self Adhesive

Self Adhesive Tactile Indicator Studs & Strips.

This document discusses the recommended application techniques of pre-applied VHB tape on tactile indicator studs and strips of stainless steel and polyurethane materials.

Refer to the Surface Preparation Suggestions below:

- Most substrates common to VHB Tape applications are best prepared by wiping (in one direction) with a 50:50 mixture of isopropyl alcohol (IPA) and water.
- Where heavy oils or greases are present there may be a need to first cut the oil with a "degreasing" solvent, e.g. white spirits, but this should always be followed with IPA/water cleaning to remove any residue.
- Abrasion or scuffing* of the surface will in many instances enhance adhesion by increasing the surface area available for bonding. Scuffing must be followed by cleaning with IPA/water mixture.
- The surface must be dry. A good way to assess cleanliness is that a surface prepared for VHB Tape application should be as clean as one being prepared for painting.

Surface Preparation Suggestions for Specific Materials

Surface	Surface Preparation Suggestions
Metals	Scuff if oxidized. For copper or brass apply lacquer or varnish to prevent further oxidation
Aluminium, anodized	Clean only
Some plastics & paints	Scuff, particularly on paints and hard plastics
Plasticised vinyl	Evaluate plasticizer resistant tapes or prime with VHB Tape / Primer
Wood, concrete, brick	Seal surface with paint, varnish or thin coat of neoprene contact adhesive
Glass/ceramic surfaces	Use Silane Glass Treatment AP115 in high moisture or humidity environments
Low surface energy plastics	Prime with Primer 94 and evaluate suitability of VHB tape
High Surface energy plastics with mould release	Clean with MEK or acetone (ensure solvents do not affect the plastic), then scuff, IPA/water wipe
Fibreglass: Gelcoat - Non Gelcoat	Clean with 3M General Purpose Adhesive Cleaner to remove mould release, scuff Sand smooth, prime with thin coat of neoprene contact adhesive or gelcoat
*Scuffing By hand or Machine Grinder	Use Scotch-Brite™ 7447 Hand Pads Use Scotch-Brite™ Roloc™ Surface Conditioning Discs, medium or fine

Application Techniques:

The following are steps in general, to be followed for getting the optimum results with the system:

1. Surface Preparation (Abrasion) & Priming
2. VHB tape application
3. Roll down / apply pressure

Most surfaces common to tape applications are best prepared by cleaning with a 70:30 mixture of isopropyl alcohol (IPA) and water. Where heavy oils and grease are present there may be a need to first cut the oil film with a 'degreasing' solvent, but this should always be followed by IPA - water cleaning to ensure that any residue of the film is cleaned up

Step 1: Abrasion & Surface cleaning (Tile/Marble/Kota stone)

Use Scotch-Brite® Pads 7447 (green or maroon) in circular / cross pattern at periphery and centre to prepare the surface. This surface is cleaned of dust, dirt by using a clean lint free cotton swab soaked in IPA - water mix in one single direction. Allow the solvent to evaporate and the surface to dry. Change the cotton swab periodically, to avoid any contamination of dusts from it on the substrate. In case of any excess cleaning solvent remaining on the substrate, it has to be wiped off with dry clean lint free cotton swab, before going for next step.

Step 2: Priming:

The LSE nature of the some surfaces makes it less receptive to any adhesive, so to promote the adhesion, the surface need to be primed - with 3M Primer 94/ UV Primer. The primer can be applied either with a brush or with a cotton swab, just a thin single coat is sufficient.

The primer should be allowed to dry to leave a tack free film for 1 min.

Because 3M Tape cannot anticipate all of the different possible substrates and contaminants that may exist, it is imperative that the user conduct an evaluation to check the suitability of tapes, surface preparation procedures and any other processes, that may have an influence on the tape itself or the bonded parts. Likewise, whether there are any changes in plastic compounding / moulding process or suppliers of these materials, it is advisable to run evaluations to ensure that the change has not influenced the compatibility of the surface with tapes.

Installation - Self Adhesive

Limitation of Liability:

Except where prohibited by law, 3M and seller will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

Applying Tactile (VHB™ Tape):

1. Remove tape liner carefully from tactile without touching the adhesive area,
2. Press the tile by using any small roller, to ensure proper surface contact and to initiate the flow of the tape. 14 PSI force is needed to activate the flow of adhesive.
3. Allow a minimum of 24 hours to perform any testing on the component after bonding. Immediate handling strength is achieved.

Step 3: Run an Evaluation:

Because 3M cannot anticipate all of the different possible substrates and contaminants that may exist, it is imperative that the user conduct an evaluation to check the suitability of the tapes, surface preparation procedures and any other processes, that may have an influence on the tape itself or the bonded parts.

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Data Sheet - Shanked

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General Cleaning and Maintenance

Suggestion for Stainless Steel:

DO NOT:

Do not use steel wool or sandpaper, or mineral acids, bleaches or chlorine cleansers.

Do not add chlorine to your pool right next to your stainless steel

Add it as far away as possible.

DO:

Rinse off stainless steel when exposed to Chlorine frequently with fresh water to wash away accumulated chemicals such as chlorine and wipe dry with a clean cloth. Especially try to clean immediately after use around chlorides (chlorine powder, seawater, etc.)

Clean frequently with a cleaner and water. Any cleaner that is safe for glass is usually safe for stainless steel.

Inspect frequently, if you notice discoloration, tarnish or water stains, increase the frequency of your fresh water rinses to reduce accumulated chemicals.

Remove any rust spots as soon as possible to prevent irreversible pitting.

Occasionally clean with borax, soda ash, or a non-abrasive commercial cleanser and water.

Stubborn Stains may be removed with a magnesium oxide, ammonia and water paste.

Consider the following periodic cleaning program:

1 can of powered cleanser

1 Scotchbrite pad

1 spray bottle cleaner

1 paste automotive wax

Directions:

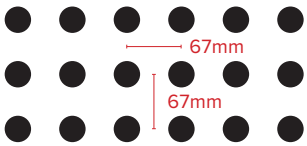
Wet cleaning pad with fresh water (do not use pool water) and apply powered cleanser. Using gentle pressure, rub stained areas in the same direction of the existing polishing grain until stains are removed. Rinse with clean water. Use cleaner de-greaser to remove any stains. Thoroughly dry the stainless then apply wax. Let wax dry to a haze and buff to a shine with a clean dry cloth. Automotive waxes will provide added beauty and protection for your equipment.

Installation - Shanked

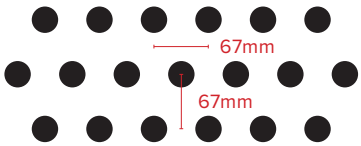
1. Operatives will set out and prepare area for drilled stud application.
2. Using pre-formed steel drilling template (can be supplied), drill out 4 corners and secure jig in place with location pegs or loose studs. This will allow operatives to continue with the marking out procedure whilst ensuring that the jig stays in position.
3. Operatives will use hand held drills to mark / form 6mm pilot holes ready for stud application.
4. Once pilot holes are formed, remove steel jig allowing operatives to return and re-drill hole to correct width and depth ready for stud application using SDS hammer drill and a 10mm SDS bit.
5. Operatives will ensure all areas and holes are debris and dust free using an industrial vacuum or similar.
6. Operatives will apply one part spit anchor resin around the tactile stud shanks (adhesive can be supplied on request) and insert into drilled holes, ensuring Pathway tactiles are fitted correctly.
7. Ensure that any excess anchor resin is removed from tactile / substrate. Anchor resin expands around tactile shanked both locking and adhering tactile into substrate
8. Wash down with water where necessary.
9. Area is ready to receive foot traffic within one hour. Full cure after 24 hours.

Based on 60mm centres - 361 tactiles per m^2

Standard Pattern



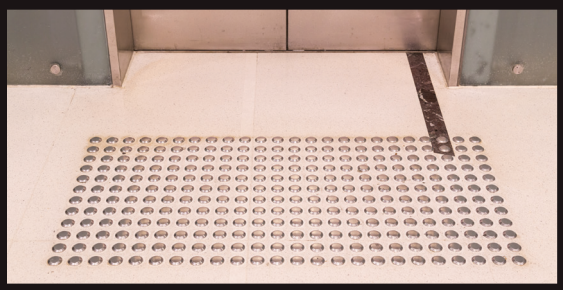
Platform Pattern

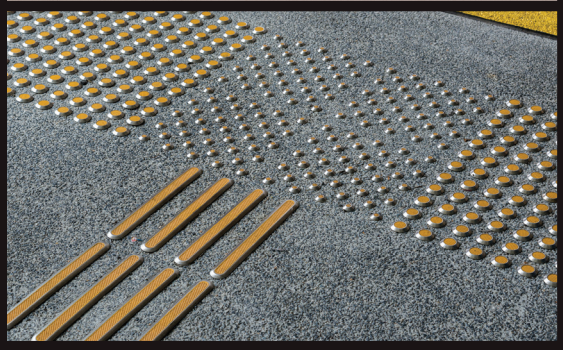


PATHWAY

GUIDANCE SYSTEM

Tactile Range





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