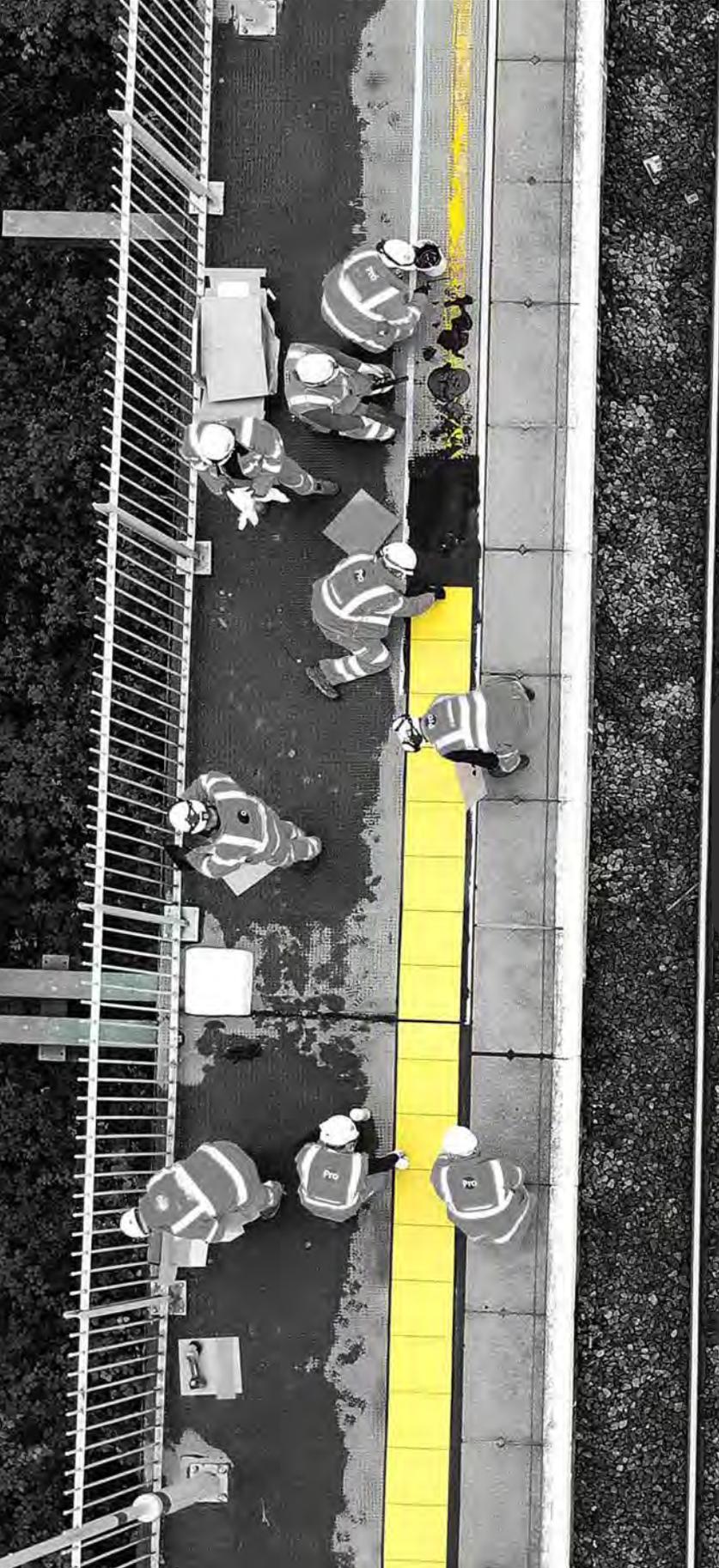


SURFACE MOUNTED TACTILE PAVING

Product Guide



Paving the way since 2001



ABOUT US

Visul Systems is part of the Fibergrate brand..

Our surface mounted tactile paving for the visually impaired is formulated using PU, MMA & Epoxy technology, with a proven track record of over 20 years.

We guarantee excellence through our regularly audited ISO 9001 Quality Assurance scheme, with closely monitored design and manufacturing procedures.

The Visul Systems tile and adhesive portfolio adhere to current safety and DfT Guidelines, enabling products to be specified by Network Rail, London Underground, plus many national rail and LRT operators.

“The purpose of Tactile Paving is to convey important information to visually impaired pedestrians about their environment”



About

Pioneers of Surface Mounted Tactile Paving Warning Surfaces

The innovative surface-bonded tactile system has a tried and tested track record of over 20 years. The innovative technique ensures perfect distribution of resin and special fillers within the tile construction.

DESCRIPTION

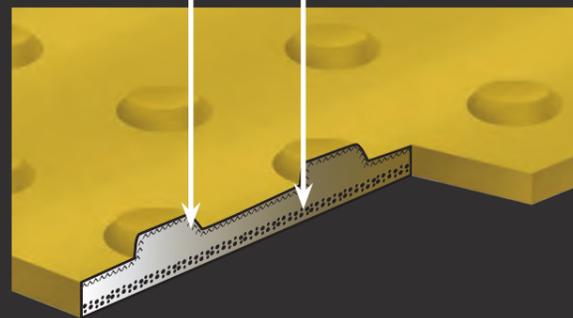
Visul tiles are manufactured on our innovative assembly line, thus ensuring perfect fillers and resin distribution, ensuring excellent wearing qualities with built-in flexibility.

PRODUCT PERFORMANCE TEST DATA & QA

- Network Rail & London Underground endorsed and installed for over 20 years, with trouble-free record.
- New improved product design
- Improved skid resistance
- Specifically formulated adhesives. Bond-Tested by Nufins
- Tensile testing resulted in the failure mode, of the vast majority of test pieces, within the substrate
- Specific wear Tested for durability
- UV stable
- Freeze/Thaw Tested
- Manufactured to strict QA scheme ISO9001

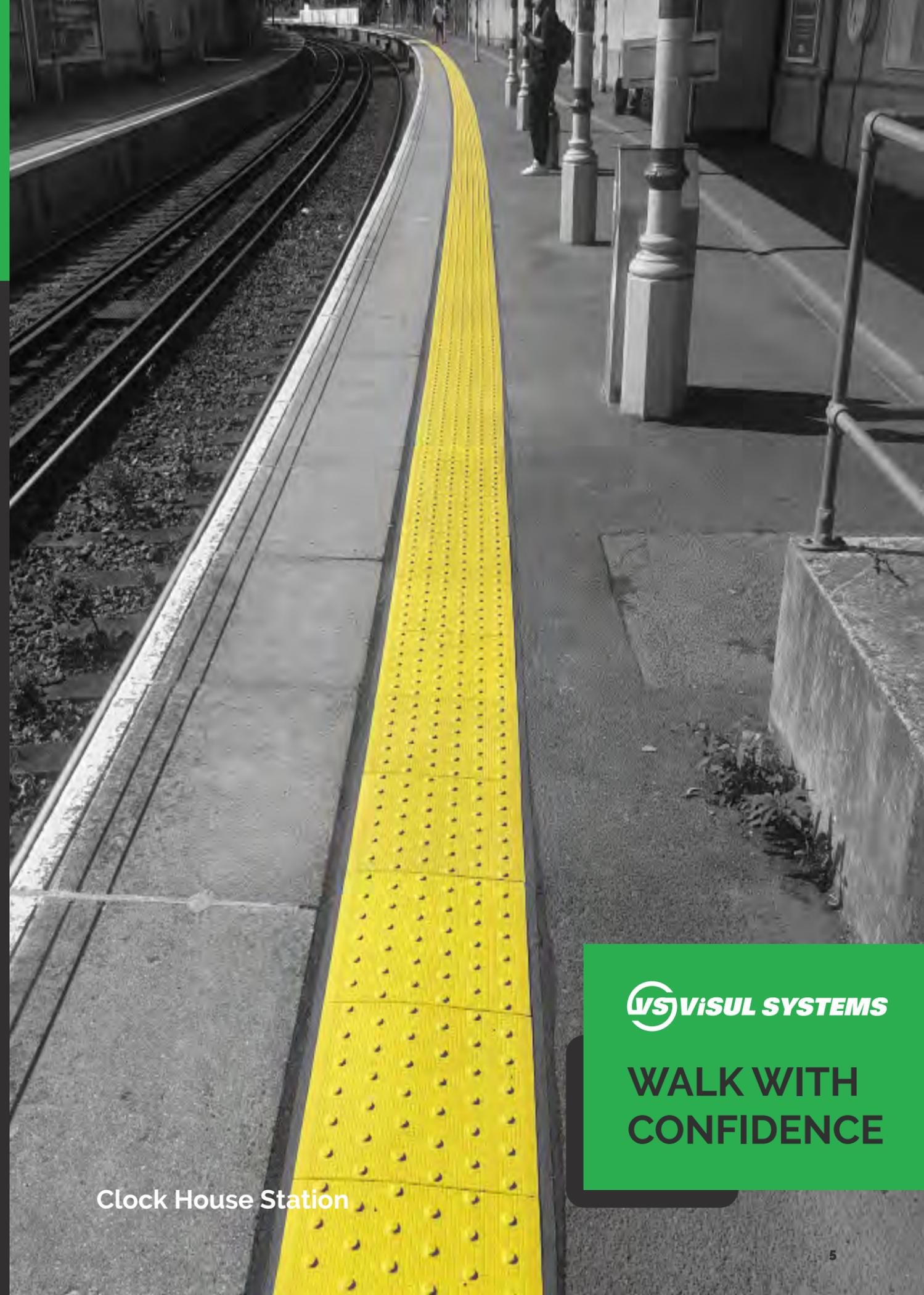
Heavyweight fillers increase wearing qualities 7 times more resilient than concrete.

Lightweight fillers increase flexibility, ensuring complete contact with substrate.



SYSTEM BENEFITS

- Seven times stronger than concrete
- No surface excavation required
- Rapid installation
- Adheres to most construction surfaces
- Hard wearing and durable
- Lightweight and easy to transport
- No 'hot works' adhesive only application



Clock House Station



WALK WITH CONFIDENCE

Platform Edge (off-street) Warning Surface

The purpose of this surface is to warn visually impaired people of the edge of all off-street railway platforms.

The profile of the platform edge (off-street) warning surface consists of offset rows of flat-topped domes 5mm (± 0.5 mm) high, spaced 66.5mm apart from the centre of one dome to the centre of the next.

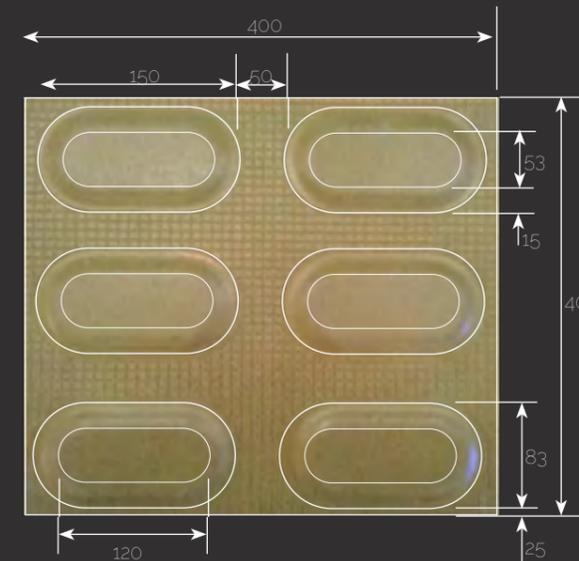
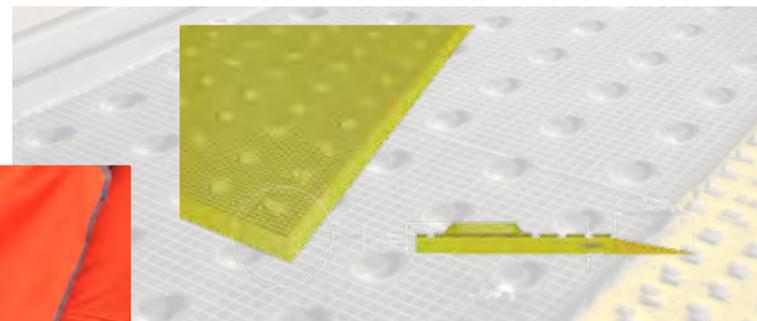
Applications



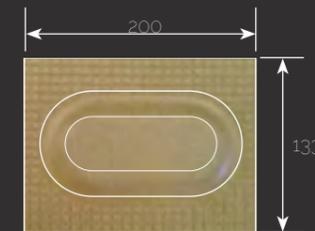
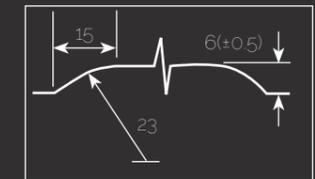
HAZARD YELLOW, GREY, BUFF OR CHARCOAL

- Heavy rail platforms
- Off-street light rapid transit (LRT) platforms
- Underground platforms

- 400mm x 400mm
- 400mm x 600mm
- 400mm x 930mm
- 400mm x 1208mm
- 400mm x 1220mm



Profile and plan of platform edge (on-street) warning surface
Not to scale, all dimensions in mm



Alternative module size

Platform Edge (on-Street) Warning Surface

The purpose of the platform edge (on-street) warning surface is to warn visually impaired people that they are approaching the edge of an on-street light rapid (LRT) platform.

The profile of the platform edge (on-street) warning surface comprises rows of 'lozenge' shapes. The lozenge shapes are 6mm (± 0.5 mm) high and have rounded edges in order not to be a trip hazard.

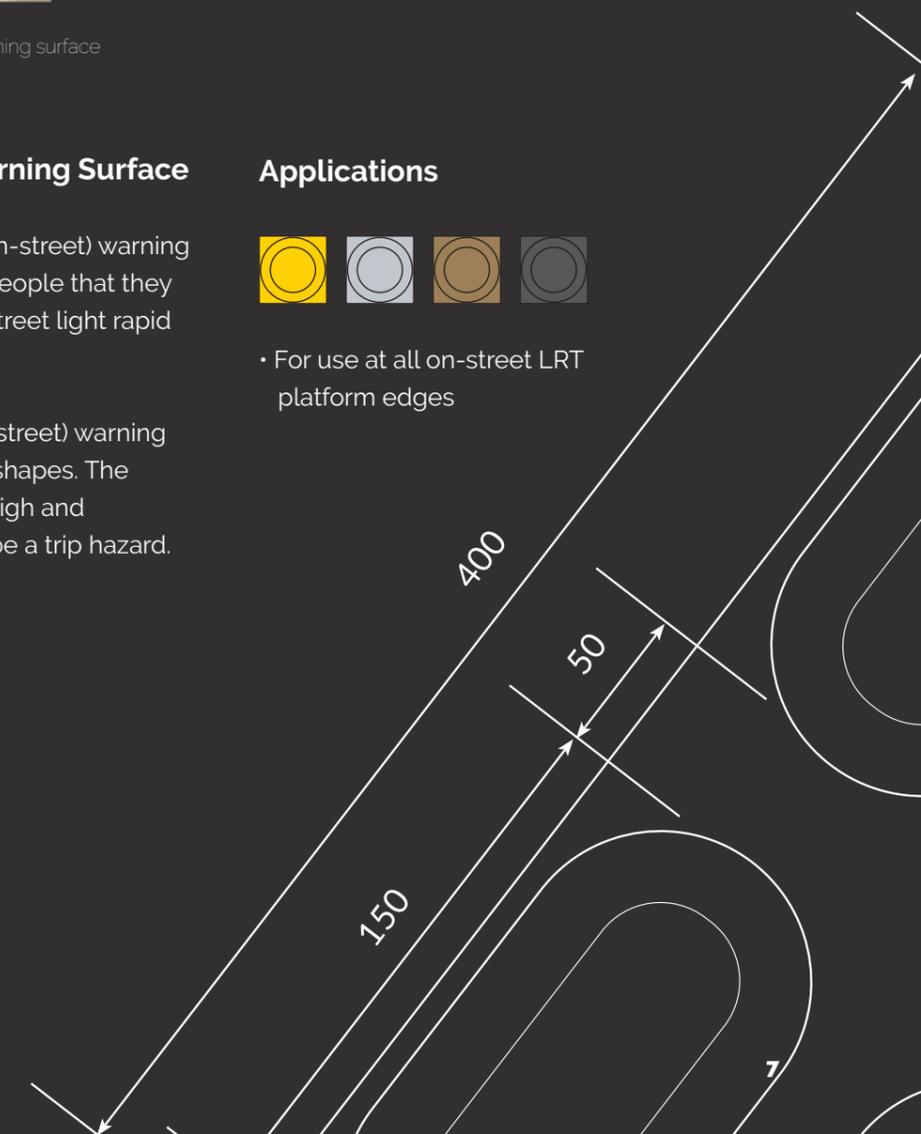
Size

400mm X 400mm

Applications

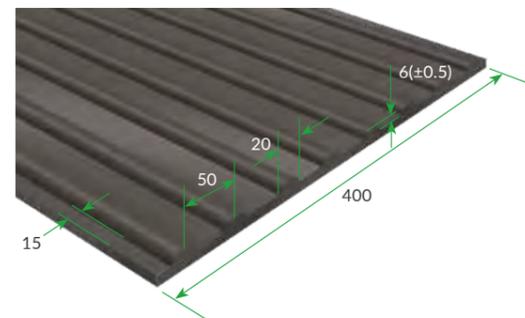


- For use at all on-street LRT platform edges



Corduroy Hazard Warning Surface

The purpose of the corduroy surface is to warn visually impaired people of the presence of specific hazards: steps, level crossings or the approach to on-street rapid transit (LRT) platforms. It is also used where a footway joins a shared route. It conveys the message 'hazard, proceed with caution'. The profile of the corduroy surface comprises rounded bars running transversely across the direction of pedestrian travel. The bars are 6mm (± 0.5 mm) high, 20mm wide and spaced 50mm from the centre of one bar to the centre of the next.



Not to scale, all dimensions in mm



BUFF OR CHARCOAL

Size:

400mm x 400mm

Applications:

- Tops and bottoms of stairs
- Foot of a ramp to an on-street rapid transit (LRT) platform, but not at any other ramps
- Level crossing
- Where people could inadvertently walk directly on to a platform at a railway station
- Where a footway/footpath joins a shared route



Guidance Path Surface

The profile of the guidance path surface comprises a series of raised, flat-topped bars running in the direction of pedestrian travel. The bars are 5.5mm (± 0.5 mm) high, 35mm wide and are spaced 45mm apart. Used to guide visually impaired people along a route when traditional cues, such as property line or kerb edge, are not available. It can also be used to guide people around obstacles, for example street furniture in a pedestrian area.



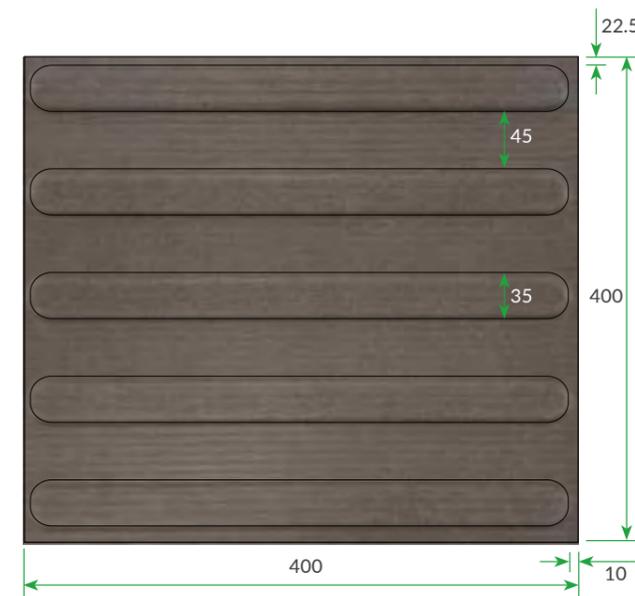
BUFF OR CHARCOAL

Size:

400mm x 400mm

Applications:

- The guidance path is recommended for the use in the following circumstances:
- Where the traditional guidance given by a standard footway between the property line and carriageway does not exist (for example, in a pedestrian precinct);
- Where pedestrians need to be guided around obstacles (for example, in a pedestrian precinct): although care should be taken in siting street furniture to ensure that such problems are not created;
- Where a number of visually impaired people need to find a specific location; and in transport terminals to guide people between facilities.



Not to scale, all dimensions in mm



Blister Surface Pedestrian Crossing Points

The purpose of the blister surface is to provide a warning to visually impaired people who would otherwise, in the absence of a kerb upstand <25mm high, find it difficult to differentiate between where the footway ends and the carriageway begins. The surface is therefore an essential safety feature for this group of road users at pedestrian crossing points, where the footway is flush with the carriageway to enable wheelchair users to cross unimpeded.

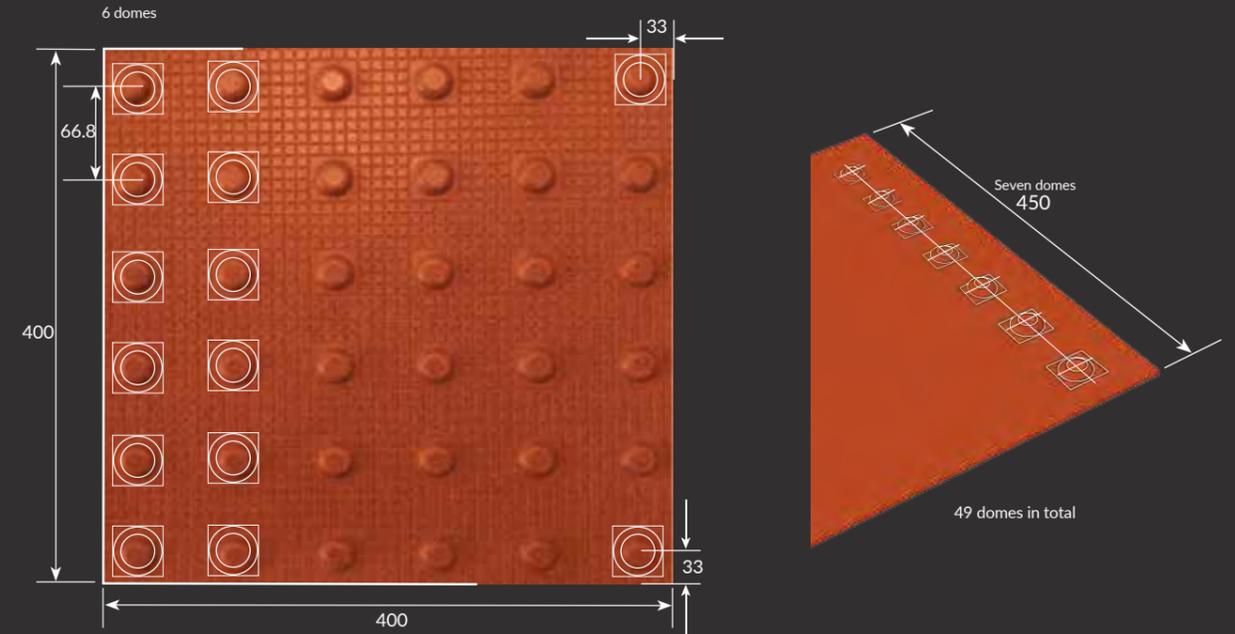
-  RED SHOULD BE USED AT CONTROLLED CROSSINGS ONLY
-  BUFF SHOULD BE USED AT UNCONTROLLED CROSSINGS ONLY

Size:

-  400mm x 400mm
-  450mm x 450mm



Adheres to most construction surfaces



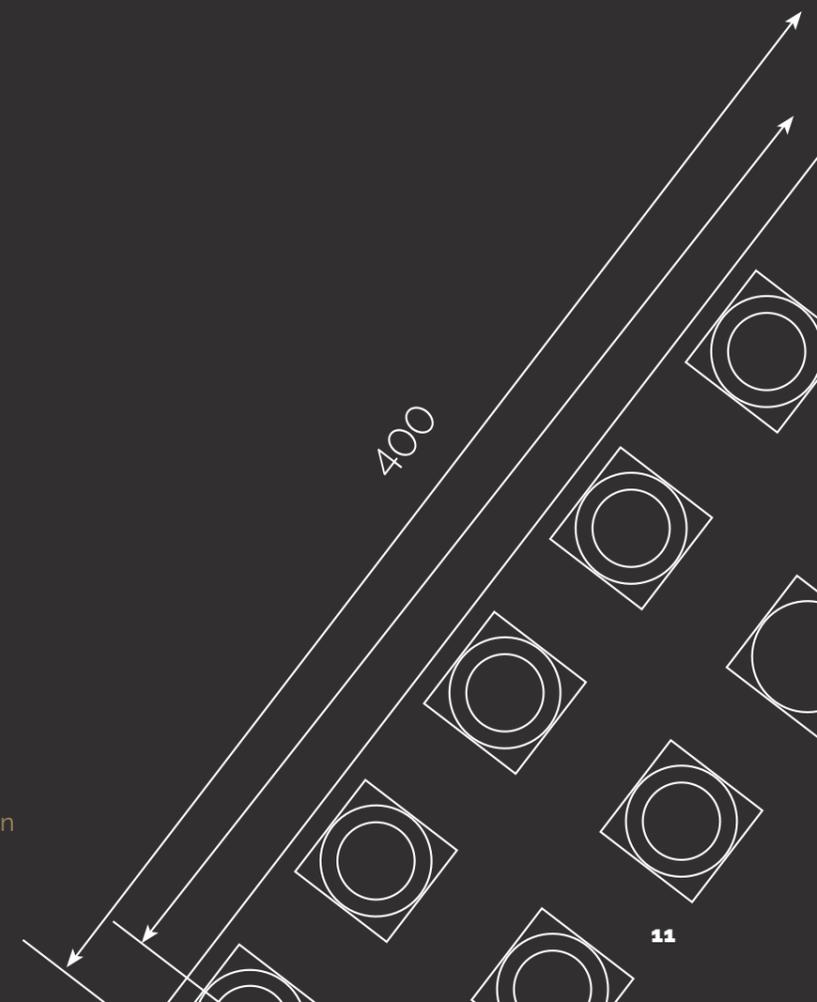
Not to scale, all dimensions in mm

Controlled Crossing Points:

- Zebras
- Pelicans
- Puffins
- Toucans
- Traffic signals with pedestrian phases

Uncontrolled Crossing Points:

- Side road crossings
- Busy crossovers (vehicle crossings)
- Crossings away from junctions
- Kerb to kerb flat road humps
- Signal controlled junctions without pedestrian phases (traffic lights)

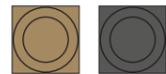


Segregated Shared Cycle Track/Footway Surfaces

The purpose of the tactile surface used in conjunction with a segregated shared cycle track/footway is to advise visually impaired people of the correct side to enter.

Applications:

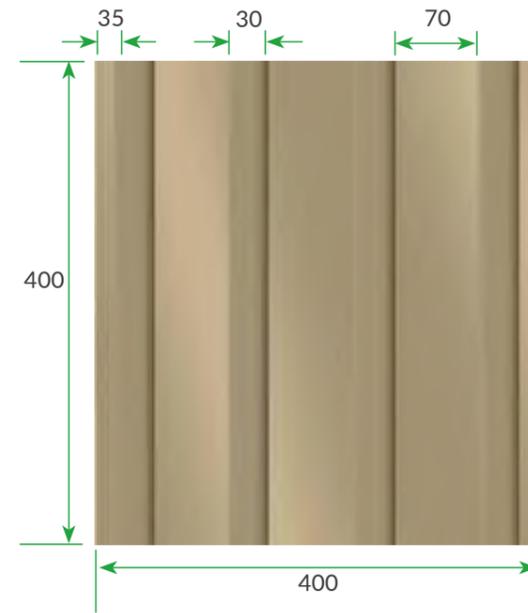
The tactile surface should be used on any segregated shared route where the designated side is not physically separated from the designated cyclist side, for example by difference in level.



BUFF OR CHARCOAL

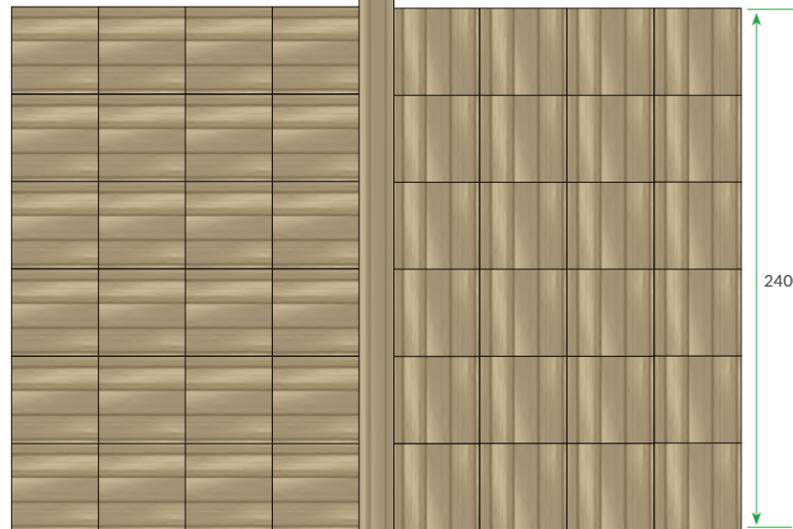
Size:

400mm x 400mm



"Ladder" pattern on the footway or footpath

"Tramline" pattern on the cycle track

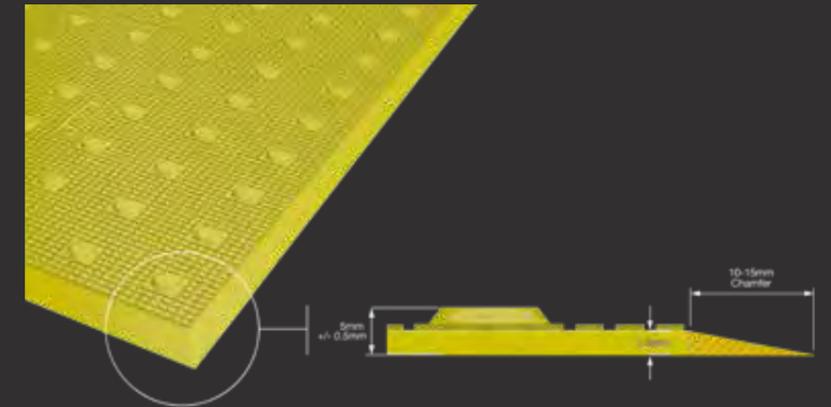


Profile & plan of segregated shared cycle track footway surface and central delineator strip. Not to scale, all dimensions in mm

Raised line
20mm drainage gap

Unique Fillet Edge System

Using the adhesive supplied with each kit of surface mounted tactile paving it is truly possible to produce a chamfered or tapered edge detail, enabling smoother identification for the partially sighted and a seamless transition for both foot and wheel chair passengers alike when alighting the train.



Surface Mounted Tactile Paving Adhesive

In-house Manufactured system

Using the adhesive supplied with each kit of surface mounted tactile paving, it is truly possible to produce a chamfered or tapered edge detail, enabling smoother identification for the visually impaired and a seamless transition for both foot and wheel chair passengers alike when alighting the train.

Adhesive

Visul Systems manufacture a range of Polyurethane (PU), Epoxy (EP) and Methyl Methacrylate (MMA) adhesives with excellent bond strength and non-slumping characteristics making them ideally suited for bonding surface mounted tactiles to construction surfaces/substrates.

Visul Systems tactile adhesive outperforms all other tactile adhesives in terms of bond strength, long term performance and whole life costs.

- Non shrink
- No slumping, no primer required
- 100% adhesion to substrate
- Rapid curing
- Moisture tolerant (epoxy adhesive)

Maintenance Programme

It is important to monitor the tactile surface condition and plan for replacement as part of maintenance programmes.

The profile of the tactile surface is crucial to its effectiveness as a warning to visually impaired people.

Visul Systems technical department can advise on suitable design and maintenance programmes. Further technical information may be obtained on request and consultation is encouraged to ensure the suitability of materials and that installation detailing is optimised, to achieve in-service performance requirements.

Creating a Safer Environment for the Blind & Partially Sighted.



Hazard Warning



Directional Guidance



Presence of Amenity



Sub-Zero Adhesive Available

Our Clients:



We are Environmentally Conscious

-  No 'hot works' – Adhesive only application
-  Low noise pollution – No heavy duty plant or machinery necessary
-  Clean installation – No airborne contaminants created during installation process
-  Low carbon footprint – lightweight and easy to transport

We Guarantee Quality



 CONTRACTOR TRAINING DAYS



 APPLICATOR TRAINING CARDS – 18 MONTHS

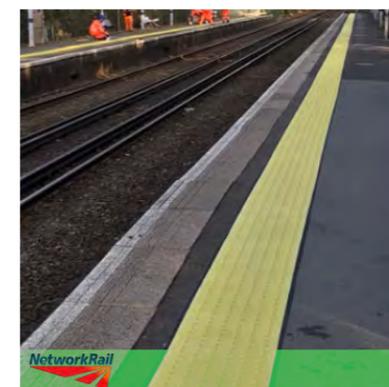


 BRANDED TILES

Project Snapshots



 BATTLE STATION KENT



 OLYMPIC PARK STATION LONDON



 GODALMING STATION SURREY

GRP Grating

GRP Gratings & Access Solutions

Visul GRP Grating allows for ease of onsite fabrication without the need for any hot works. Visul's GRP Grating are constructed using the best quality materials and are designed to take extremely heavy loads.

System Benefits:

- Slip Resistant
- Impact Resistant
- Lightweight
- Fire Retardant
- Corrosion Resistant

A highly effective alternative to traditional steel fencing

Glass Reinforced Plastic (GRP) Palisade Fencing offers an alternative to steel which is light, easy to assemble, non-corrosive, non-conductive and is radar transparent. Ideal for electrical rail services.

Our GRP Profiles comply with BS EN 13706, either E17 or E23. The GRP Top Hat Pales are independently tested and comply with the requirements of BS 1722-12:2016.

A cost effective alternative to traditional grating systems

Visul GRP Gratings & Access Solutions – Your long term maintenance free solution

Visul GRP Gratings & Access Solutions are designed to deliver the ultimate performance in the most demanding conditions. Visul GRP Grating offers a fit and forget solution due to its corrosion-resistant and non-conductive properties.

GRP Palisade Fencing Panels

A highly effective alternative to traditional steel fencing

Our GRP Palisade Fencing Panels are constructed using our non-conductive, lightweight pultruded profiles, making them a highly effective alternative to traditional steel fencing, whilst still maintaining strength.

Anti-Slip



An affordable & versatile anti-slip solution for your steps

Visul Anti Slip Stair Tread Covers are designed to fit over existing substrates and provide an excellent slip resistant surface. Visul Anti Slip Stair Tread Covers offer long term solutions for heavy traffic staircases and walkways due to the heavy duty aggregate incorporated into the top surface.

Tough, chemical resistant stair nosings

Visul Anti Slip Stair Nosings are an excellent choice for providing a cost effective permanent slip resistant solution for step edges. Not only do they instantly improve slip safety underfoot, they also highlight the leading edge of the steps to ensure footing is made easier.



Robust & hard wearing line marking paint

Visul Linemark is a methyl methacrylate based line marking paint designed for application to a wide range of surfaces, offering excellent colour stability, it is both hard wearing and chemically resistant with an inherent long-term flexibility.

Visul Tredseal - Methyl Methacrylate (MMA) Resin

Visul Tredseal offers a 100% effective waterproofing system and skid-resistant surface, many times lighter than mastic asphalt. The ease and speed of application to concrete, asphalt or metal substrates results in minimal possession time and a faster return to service. Visul Tredseal can be used on a wide range of structures subjected to varying traffic loadings, providing a lightweight design.



Visul Systems, Kingston House, 3 Walton Road, Pattinson North,
Washington, Tyne & Wear, NE38 8QA, UK

t: +44(0)191 402 1960 e: info@fibergrate.co.uk

www.fibergrate.co.uk

