



# Creating a Safer Environment for the Blind & Partially Sighted





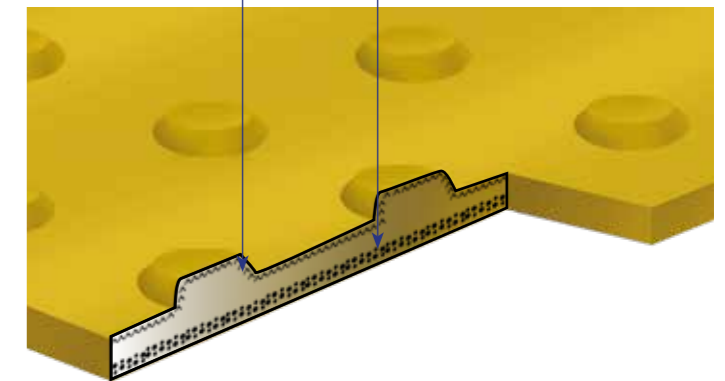
# About Surface Mounted Warning Surfaces

The only stick on tactile system with a tried and tested track record of over 15 years.

Patented technique ensures near perfect distribution of resin and special fillers within the tile construction

Heavy weight fillers increases wearing qualities 7 times more resilient than concrete

Lightweight fillers increases flexibility ensuring full contact with substrate



## Description

Visul tactile tiles are manufactured in-house on a patented assembly line to ensure near perfect distribution of fillers and resin ensuring excellent wearing qualities and built in flexibility.

## Product performance and Test Data

- Network Rail & London Underground used & endorsed for over 15 years – Trouble free record
- New improved formula
- Increased skid resistance
- The specifically formulated adhesive has been tested for adhesion by Nufins
- Tensile tests were performed and the failure mode for the vast majority of the test samples was within the base substrate
- Wear tested for durability
- UV stable
- Freeze/thaw tested
- Manufactured to strict QA criteria

## System Benefits

- 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



## About us

Visul Systems were the originator of innovative surface mounted tactile paving products, and now have a successful track record in excess of 15 years.

We expertly manufacture a comprehensive range of surface mounted tactile paving products and adhesives, which are offered as both supply & install or supply only.

As part of the USL Group of companies, Visul Systems are extremely financially robust. We also have an experienced team of installation technicians and resin flooring experts on hand to guide and assist you with your tactile paving project.

Visul's unique surface mounted tactile paving product portfolio adheres to current DfT Guidelines and their products are specified by Network Rail and London Underground.

### Industry Accreditations and affiliations

Visul Systems recognises the importance of membership of industry-affiliated specialist organisations, allowing us to keep in close contact with the latest industry developments. Visul Systems work in partnership with architects, consultants and contractors to improve product technology, quality and performance, thus benefiting all stakeholders in all aspects of the project.

Materials are manufactured under the ISO 9001 Quality Management Scheme and comply with ISO 14001 Environmental Standards.

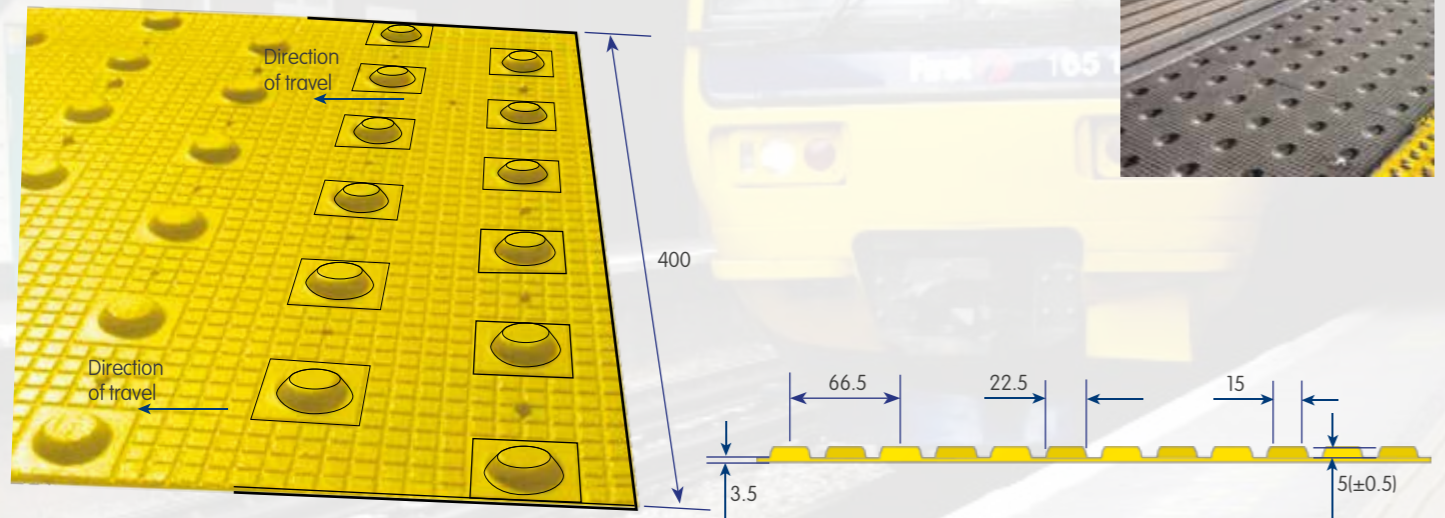
[www.visulsystems.com](http://www.visulsystems.com)







# RAIL and LRT



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

## 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 (±0.5mm) high, spaced 66.5mm apart from the centre of one dome to the centre of the next.

### Used & Endorsed by:



### Applications:

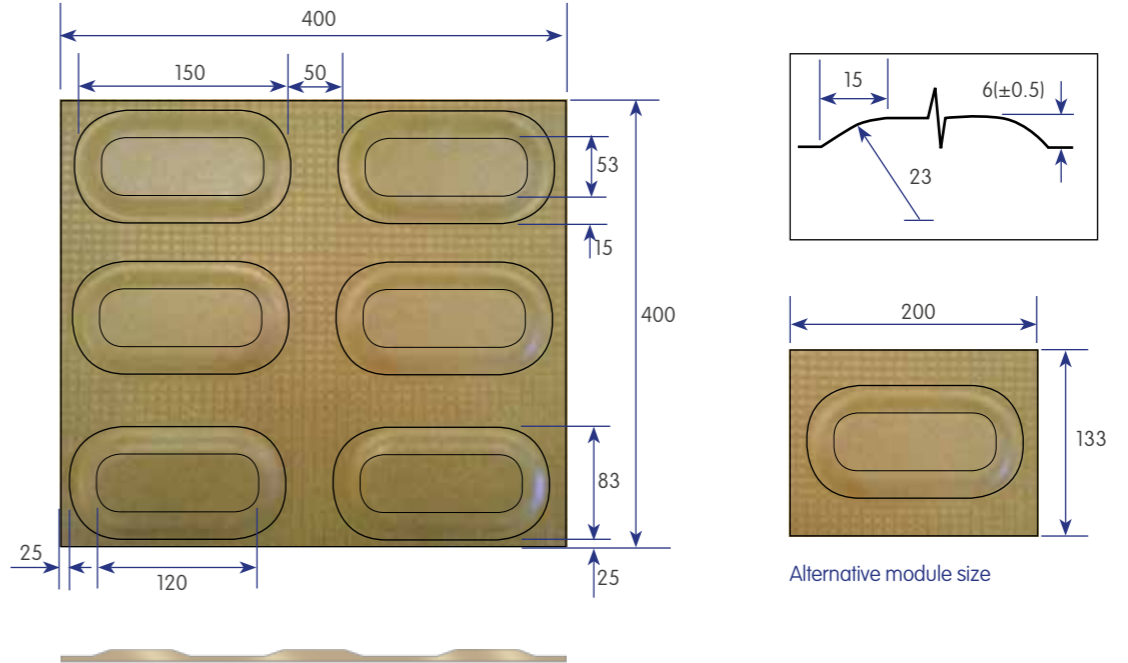


HAZARD YELLOW, GREY, BUFF OR CHARCOAL

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

### Sizes:

- 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

## 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 (±0.5mm) high and have rounded edges in order not to be a trip hazard.

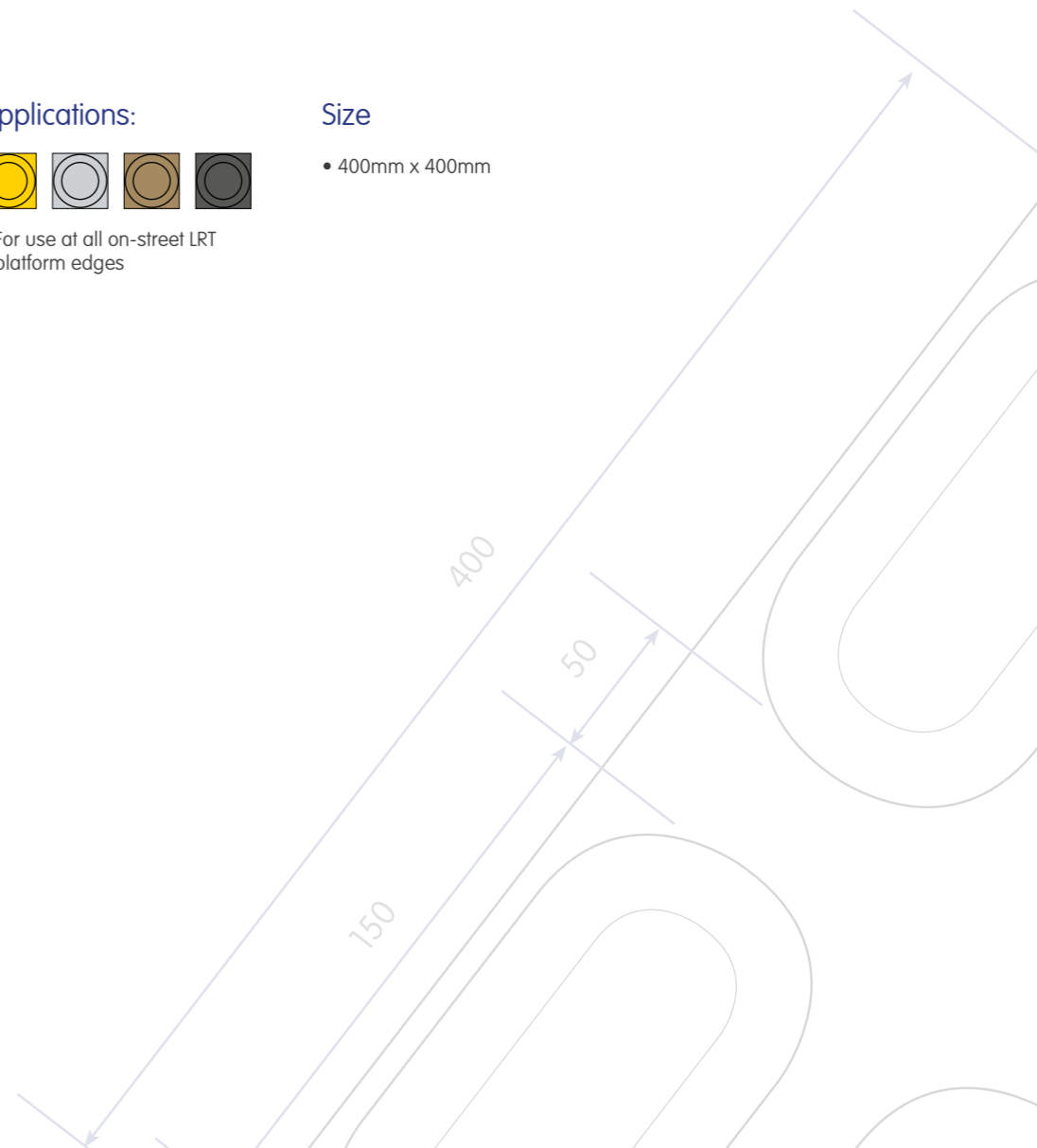
### Applications:



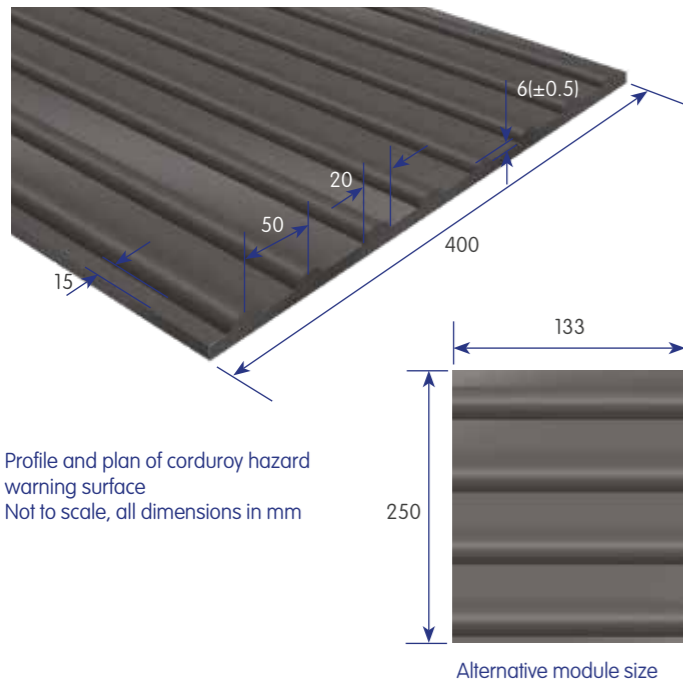
- For use at all on-street LRT platform edges

### Size

- 400mm x 400mm





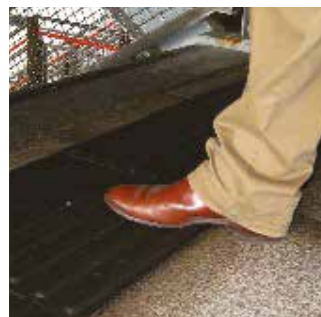


Profile and plan of corduroy hazard warning surface  
Not to scale, all dimensions in mm

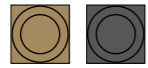
**Corduroy Hazard Warning Surfaces**

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 (±0.5mm) high, 20mm wide and spaced 50mm from the centre of one bar to the centre of the next.



**Applications:**



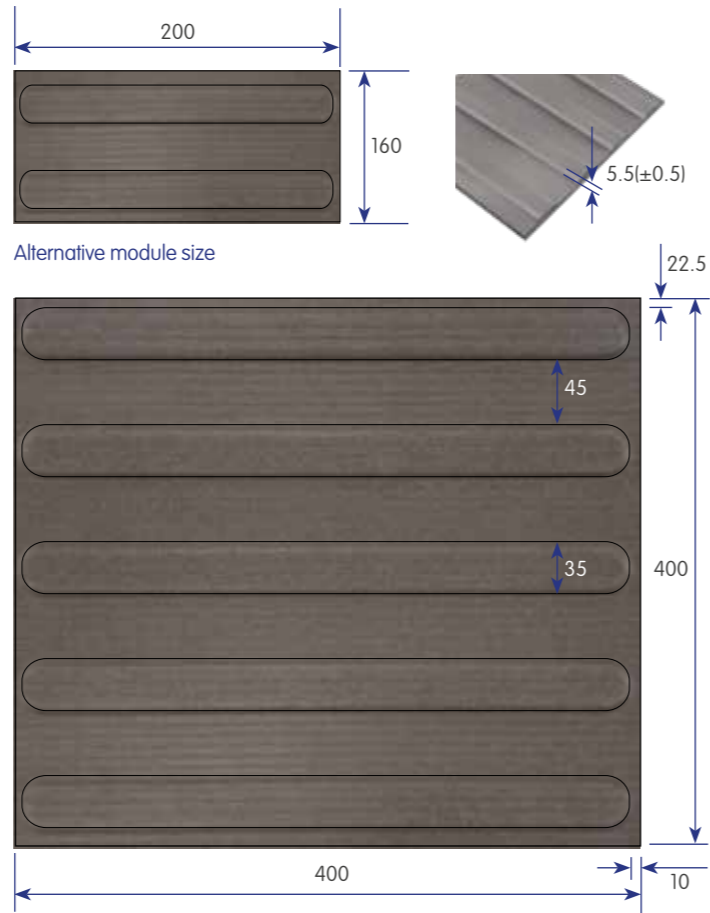
BUFF OR CHARCOAL SHOULD BE USED

- 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

**Size**

- 400mm x 400mm

Profile and plan of guidance path surface  
Not to scale, all dimensions in mm



**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 (±0.5mm) high, 35mm wide and are spaced 45mm apart.

**Applications:**



The guidance path is recommended for the use in the following circumstances:

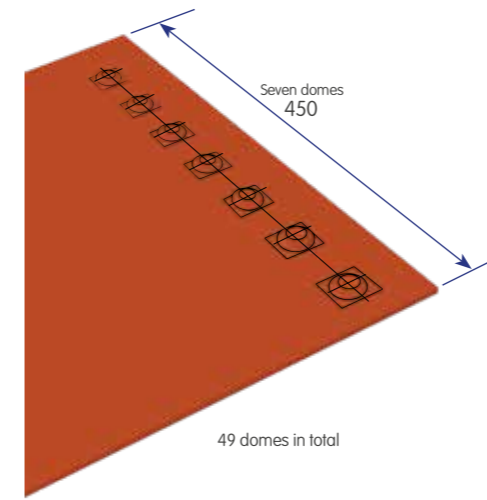
- Where the traditional guidance given by a standard footway between the property line and carriageway does not exist (for example, in a pedestrian precinct);
- Where pedestrians need to be guided around obstacles (for example, in a pedestrian precinct): although care should be taken in siting street 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.

**Size**

- 400mm x 400mm



Profile and plan of blister surfaces  
The profile of the blister surface comprises of rows of flat-topped 'blisters', 5mm (±0.5mm)



**Blister Surface for Pedestrian Crossing Points**

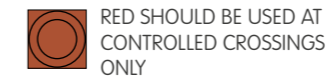
The purpose of the blister surface is to provide a warning to visually impaired people who would otherwise, in the absence of a kerb upstand <25mm high, find it difficult to differentiate between where the footway ends and the carriageway begins.

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.

**Applications:**

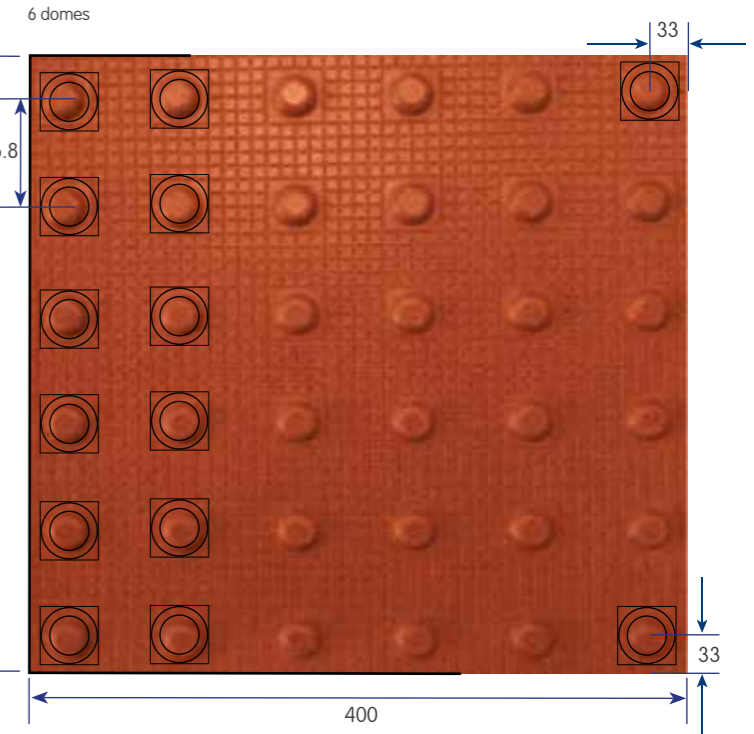
The blister surface should be installed in the absence of an upstand at both controlled and uncontrolled crossing points:

**Controlled Crossing Points**

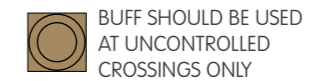


RED SHOULD BE USED AT CONTROLLED CROSSINGS ONLY

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



**Uncontrolled Crossing Points**

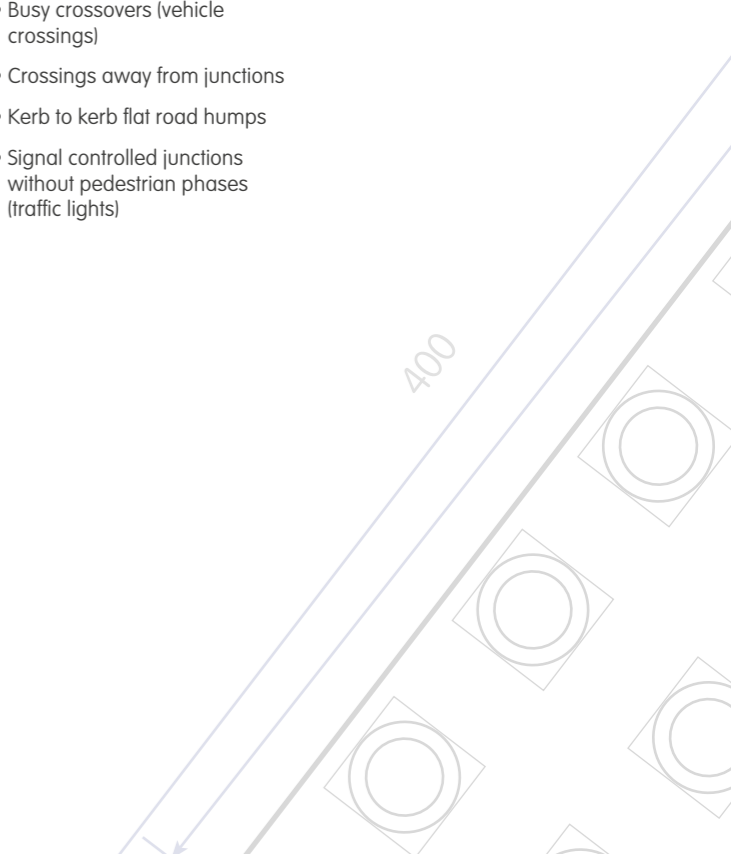


BUFF SHOULD BE USED AT UNCONTROLLED CROSSINGS ONLY

- 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)

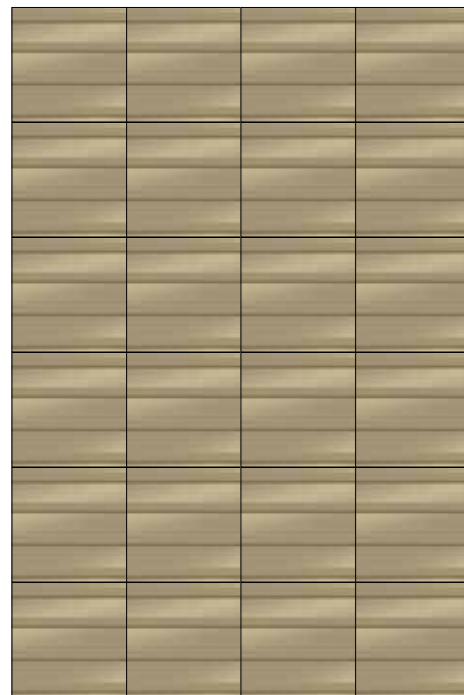
**Sizes**

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

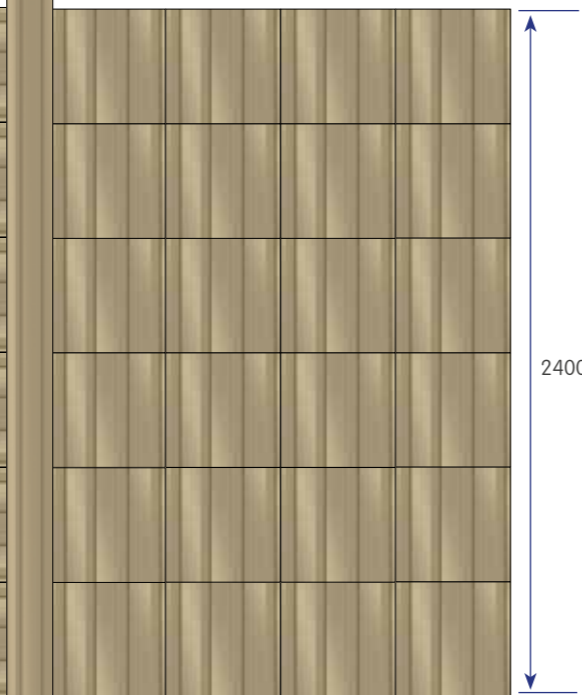




"Ladder" pattern on the footway or footpath



"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

### 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.

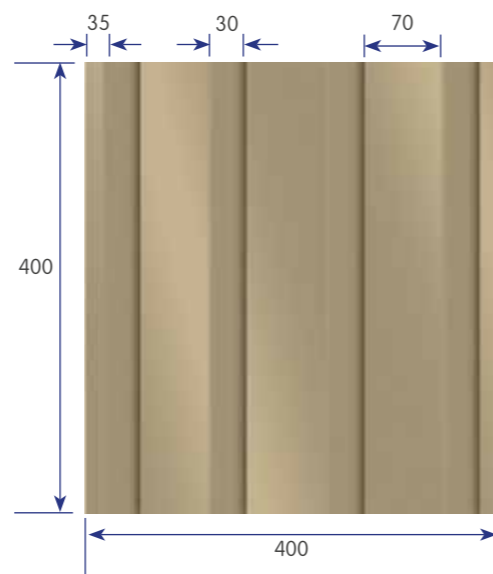
#### Applications:



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.

#### Size

- 400mm x 400mm



## 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.



### Safeguarding The Best From The Rest

Visul Systems have invested heavily in new manufacturing processes and are taking advantage of huge cost savings in raw materials. The benefits of being part of a large multi-national company have enabled Visul to offer the most competitively priced packages on the market for this type of product.

Visul tiles are the only tried and tested product with a trouble-free track record of over 15 years in both the rail and highway sectors.

### 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 of surface mounted tactiles to construction surfaces/substrates.

Visul Systems tactile adhesive outperforms all other tactile adhesives in terms of strength, durability and cost.

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

### Maintenance Programme

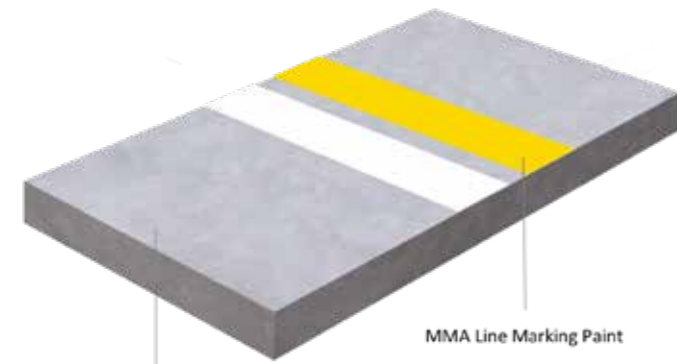
It is important to monitor the condition of the tactile surface and to plan for replacement as part of maintenance programmes. The profile of the tactile surface is crucial to its effectiveness as a warning to visually impaired people.

Visul Systems technical department is able to advise on suitable design and maintenance programs. Further technical information may be obtained on request and consultation is encouraged to ensure choice of materials selected and detailing is optimised to suit in-service performance requirements.





# ROBUST & HARD WEARING LINE MARKING PAINT



Asphalt/ Concrete/ Steel substrate

## Long-lasting & highly durable surface coating

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 Linemark** is available in three different grades;

**Standard** - Designed for external applications with heavy traffic

**Reflective** - Designed for internal applications or for light trafficked areas

**Smooth** - Designed for internal applications or for light trafficked areas



- Excellent UV/colour stability
- Very good adhesion to most substrates
- Inherent flexibility provides excellent durability

### Applications:

- Railway platforms
- Stair Treads
- Carriageways
- Footbridges
- Car Parks
- Ramps & Pedestrian Footways
- Stadiums
- Warehouses
- Hospitals

# 100% EFFECTIVE WATERPROOF, WEARING COURSE & SKID-RESISTANT SURFACE



## Visul Tredseal - Methyl Methacrylate (MMA) Resin

**Visul Tredseal** offers a 100% effective waterproof, wearing course 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.

### System Benefits:

- Cost effective. Easy and quick application
- Based on MMA technology
- Can be trafficked within 2-3 hours @ 15 to 20°C
- Aesthetically pleasing finish
- Tough, flexible and hard wearing surface
- Versatile surfacing suitable for application on a variety of substrates
- Rapid cure even at low temperatures



- Waterproof
- Formulated to comply with the requirements of EN 1504 Part 2
- Manufactured in accordance with ISO 9001

### Applications:

- Waterproof coating for silos, tanks & bunds
- Footbridges & Stair Treads
- Car Parks
- Rail, Air & Marine Ports
- Ramps & Pedestrian Footways
- Stadiums & Warehouses
- Industrial Storage Yards

# TOUGH, CHEMICAL RESISTANT STAIR NOSINGS



## Visul Anti Slip Stair Nosings - A cost effective & highly durable anti slip 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.

**Visul Anti Slip Stair Nosings** can be fitted to virtually any staircase from steel to concrete and wood. They are very quick and easy to install and no specialist equipment is required. They are either glued and screwed in place or, using a structural adhesive simply glued in place eliminating any visual fixings.

### System Benefits:

- Full coverage of step
- Affordable solution
- Tough, durable & hard wearing
- Quick & easy installation
- Building Regulations & DDA Compliant

# AN AFFORDABLE & VERSATILE ANTI-SLIP SOLUTION FOR YOUR STEPS



## Visul Anti Slip Stair Tread Covers - Ideal for areas with medium to heavy footfall

**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.

**Visul Anti Slip Stair Tread Covers** can be cut to a variety of lengths and depths which mean virtually all staircases can be clad by the anti slip stair tread covers. Substrates including wood, metal, concrete and tiled surfaces can all generally have the stair tread covers fitted to them to instantly transform the staircase.

### System Benefits:

- Full coverage of step
- Affordable solution
- Tough, durable & hard wearing
- Quick & easy installation
- Building Regulations & DDA Compliant



