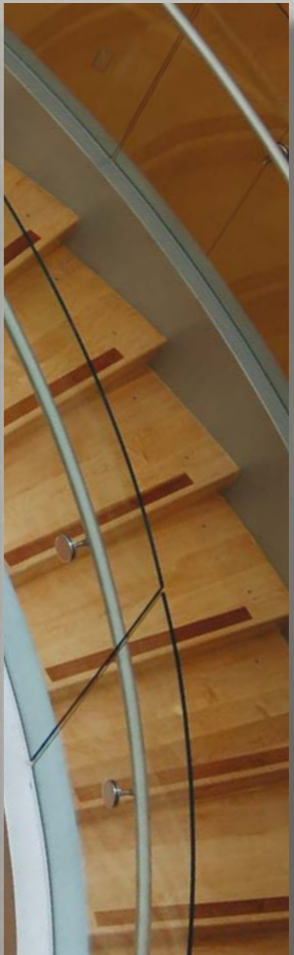


Vulcan

tread nosing, steps
and tactile products



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Architectural



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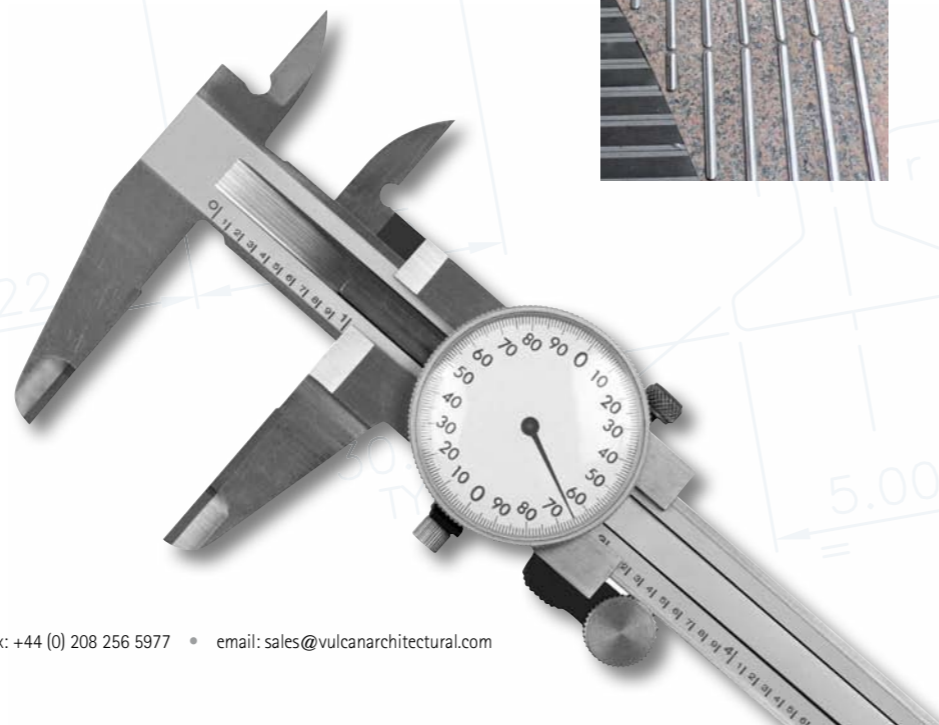
introduction

Welcome to Vulcan's tread nosing, steps and tactile brochure. Included is a brief outline of the DDA best practice visibility guidelines, and a range of Health and Safety 'slip and tread' surfaces and products that meet or exceed recommended standards. Our working knowledge and ability to clearly define client requirements and recommend the best solutions help toward client confidence and end user safety.

Vulcan's professionally designed sections are available in a wide range of materials including aluminium, brass, GRP, PVC, Stainless Steel and 'Traverse' long lasting rubber material. Vulcan sections can be cut into strips or discs allowing them either to signify a feature edge or be mounted onto one of our large range of aluminium carriers.

Included in the **new** line of products available are the VTac Brass & Stainless Steel corduroy Bars and Studs for the DDA underfoot Sensory warnings of level change.

Vulcan would like to thank you for taking the time to consider their range and viewing our latest edging products.



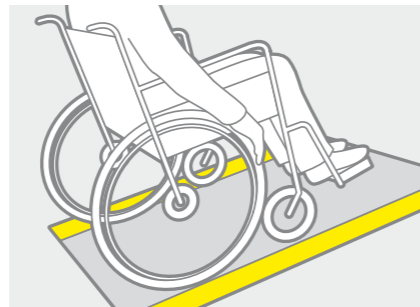


DDA (Disability Discrimination Act)

The last few decades have seen massive research into the design and development of stairs and steps. As a result, the law now states that "colour contrast is essential for visually impaired persons. Nosings need to extend the full width of the tread and be 55mm on both the tread & the riser".



Everybody is entitled to safe access into any building. Nearly 24% of people in the UK today have some degree of vision loss, many of whom rely on colour and texture to remain mobile.

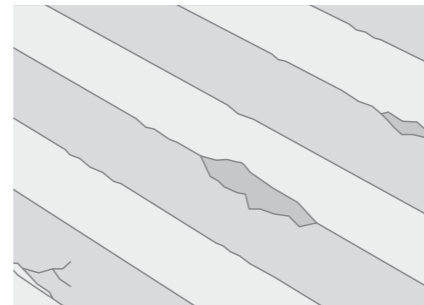


Visible sight lines & edging strips, along with tactile plates (coloured red or buff) should be installed to mark crossing points, stairs or platform edges. Please contact VULCAN Technical to upgrade existing treads.

Health and Safety

The Health & Safety Executive estimates that stair injuries cost employers and the public sector over a billion pounds a year, not to mention the thousands of working hours lost.

The average claim for stairway accidents is £7000, but has gone as high as £68,000.



The right nosing needs the right insert to meet the correct need for foot traffic. All VULCAN edgings - gritted GRP, stainless steel, aluminium, brass and the Traverse & VTac ranges - should be considered to help clients provide the correct application to ensure maximum performance throughout its product life whether industrial, public or private sector. Vulcan's range can certainly meet the requirement.



interior range

The current range of Vulcan aluminium and brass carriers are the result of years of component extrusion development. The inclusion of gritted, slip resistant GRP inserts meets the need for rapid problem solving in new buildings and refurbishment projects.

The range has been used extensively in both commercial and public sector buildings including healthcare and education. Light reflectance values (LRVs) and DDA guidelines can be incorporated into any design.

Tactile Blister studs and Corduroy bars from the VTac range can be used on smooth marble and polished floors, without the need for spoiling appearances, but upgrading to meet the needs of clients, but more importantly, meeting DDA requirements.

Help in the design, installation and servicing of these products is available from Vulcan.

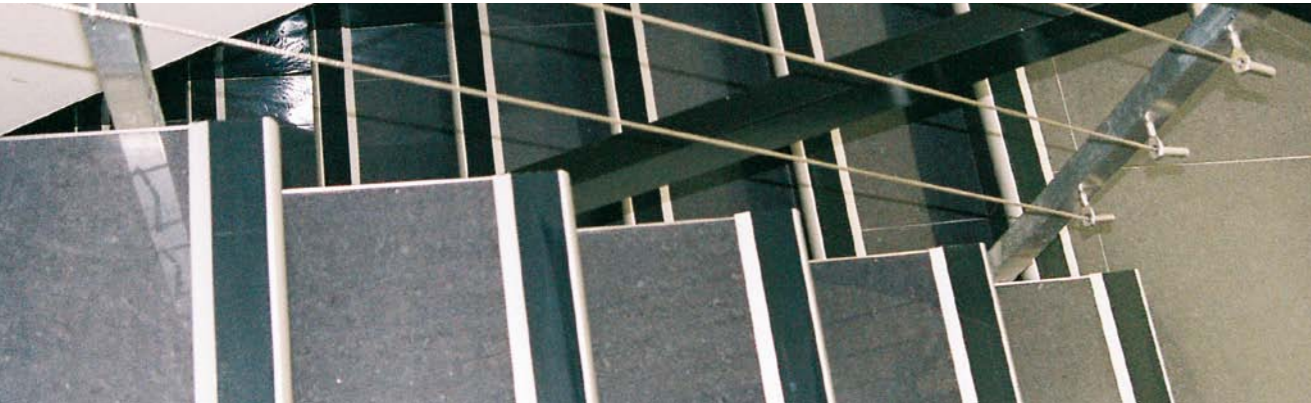
Recommended stainless steel fixing with all products available from Vulcan. All sections are subject to design changes without prior notice.



tapir™ range

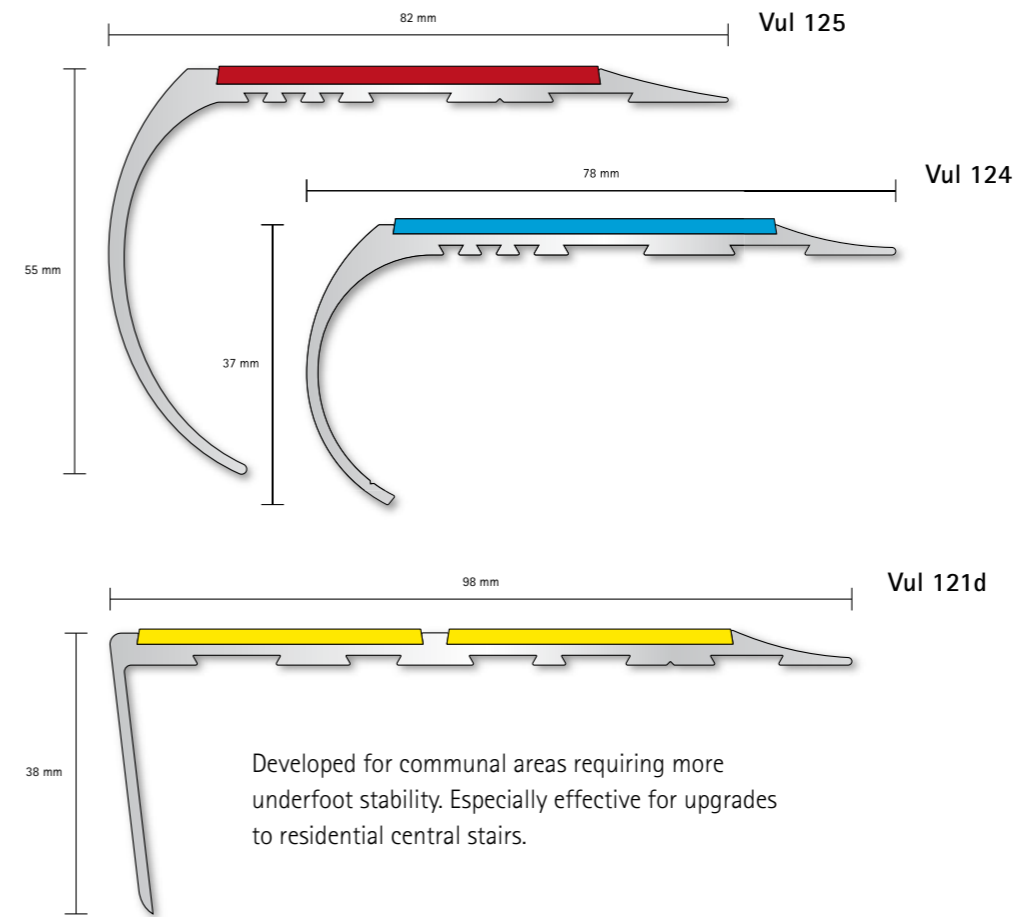
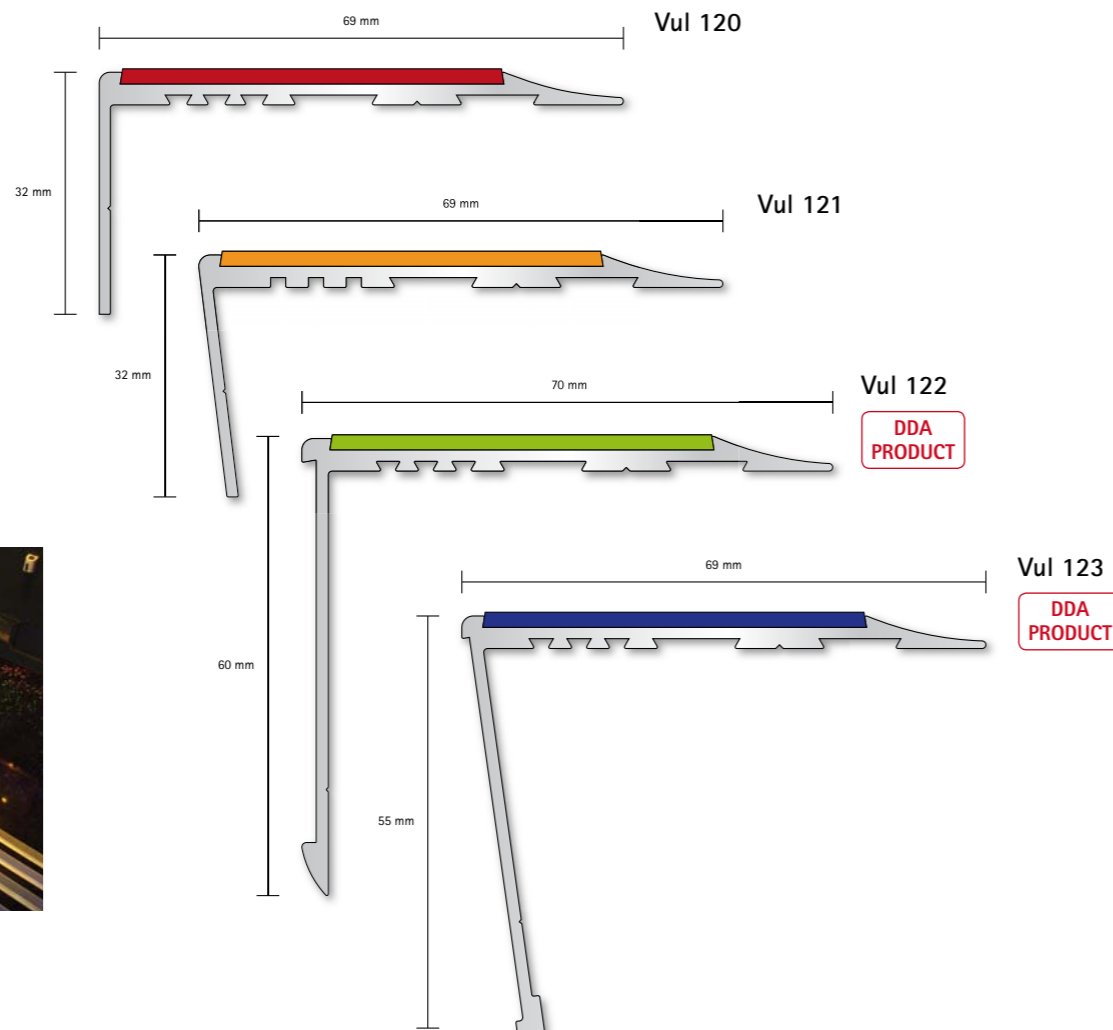
Designed to give the smoothest transition between any floor finish and the nosing. Especially suited for large communal areas, bringing them rapidly up to date, with a contrasting nosing colour, to Approved Document M (effective on New Build, 2004) guidelines.

Available with all Vulcan insert colours, including luminous and hazard. A choice of channel is available to suit all stair shapes, including double inserts and very heavy use (170 range). These can be mounted with resilient floor coverings but should be placed on top of the final layer.



light duty range

- Aluminium Carrier
- Mill Finish
- Anodised Natural or Coloured
- Polished

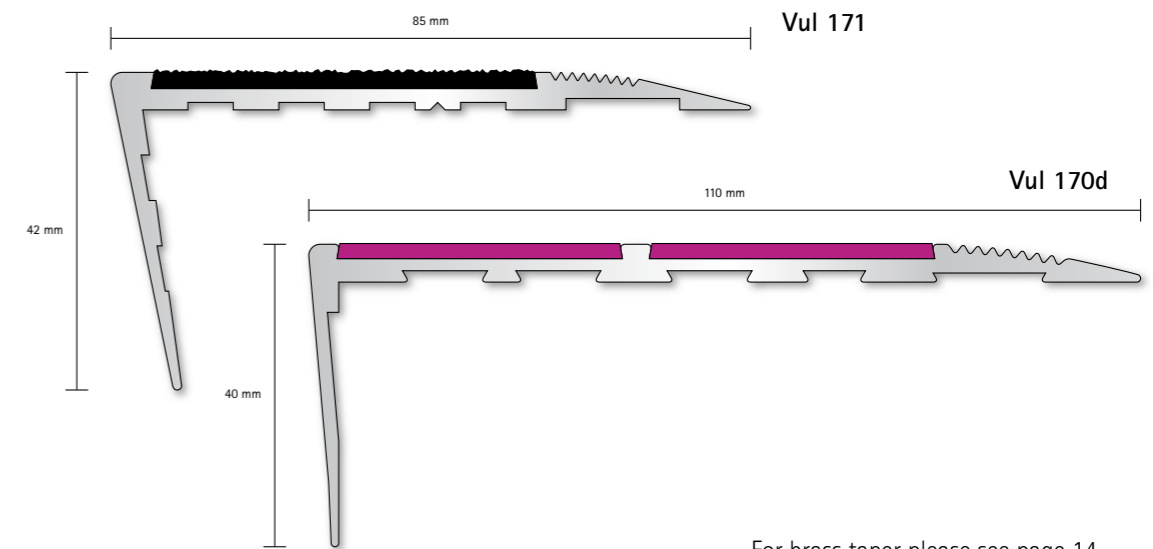


medium to heavy duty range

Vul 171 shown with the Vulcagrip insert in black. Generally used with the gritted insert (C25 grit level).

Extra care in designing impact area gives a near structural front edge perfect for the thoroughfare.

Inserts: PVC or gritted can be used with any nosing on these pages.

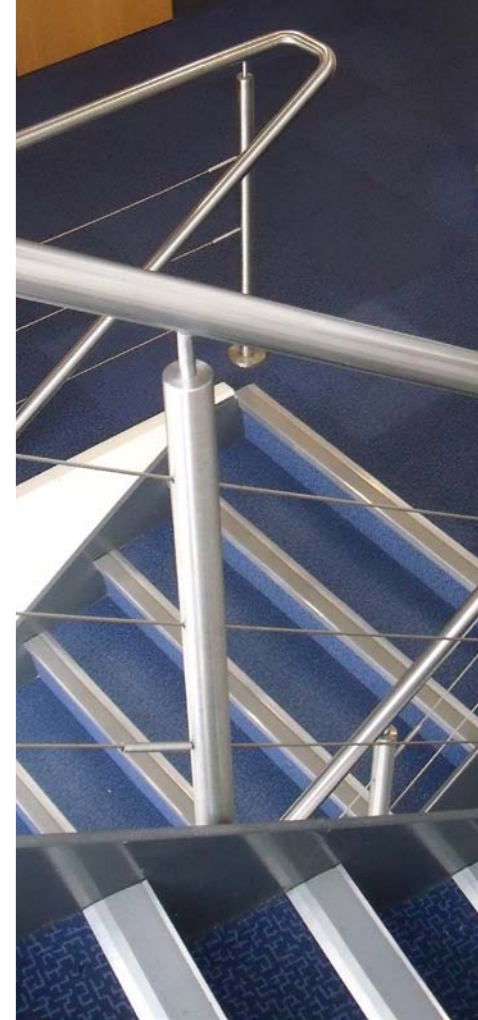


For brass taper please see page 14.

LRV	Colour	BS Ref	
0-4	Black	00E 53	
95-99	White	00E 55	
52	Light Grey	00A 05	
8	Dark Grey	00A 13	
6	Plum	02C 40	
30	Fawn Brown	04B 21	
14	Burgundy	04C 39	
10	Terracotta	04D 45	

LRV	Colour	BS Ref	
13	Scarlet	04E 53	
12	Ochre	06D 45	
24	Brilliant Orange	06E 55	
6	Chocolate	08B 29	
10	Harvest Brown	08C 39	
49	Deep Yellow	08E 51	
69	Lemon Yellow	10E 53	
15	Dark Olive	12D 45	

LRV	Colour	BS Ref	
37	Lime Green	12E 53	
8	Bottle Green	14C 39	
16	Grass	14E 53	
7	Midnight Blue	18E 29	
14	Steel Blue	18E 53	
6	Navy Blue	20C 40	
10	Violet	22D 45	
85	Photo Luminescent		



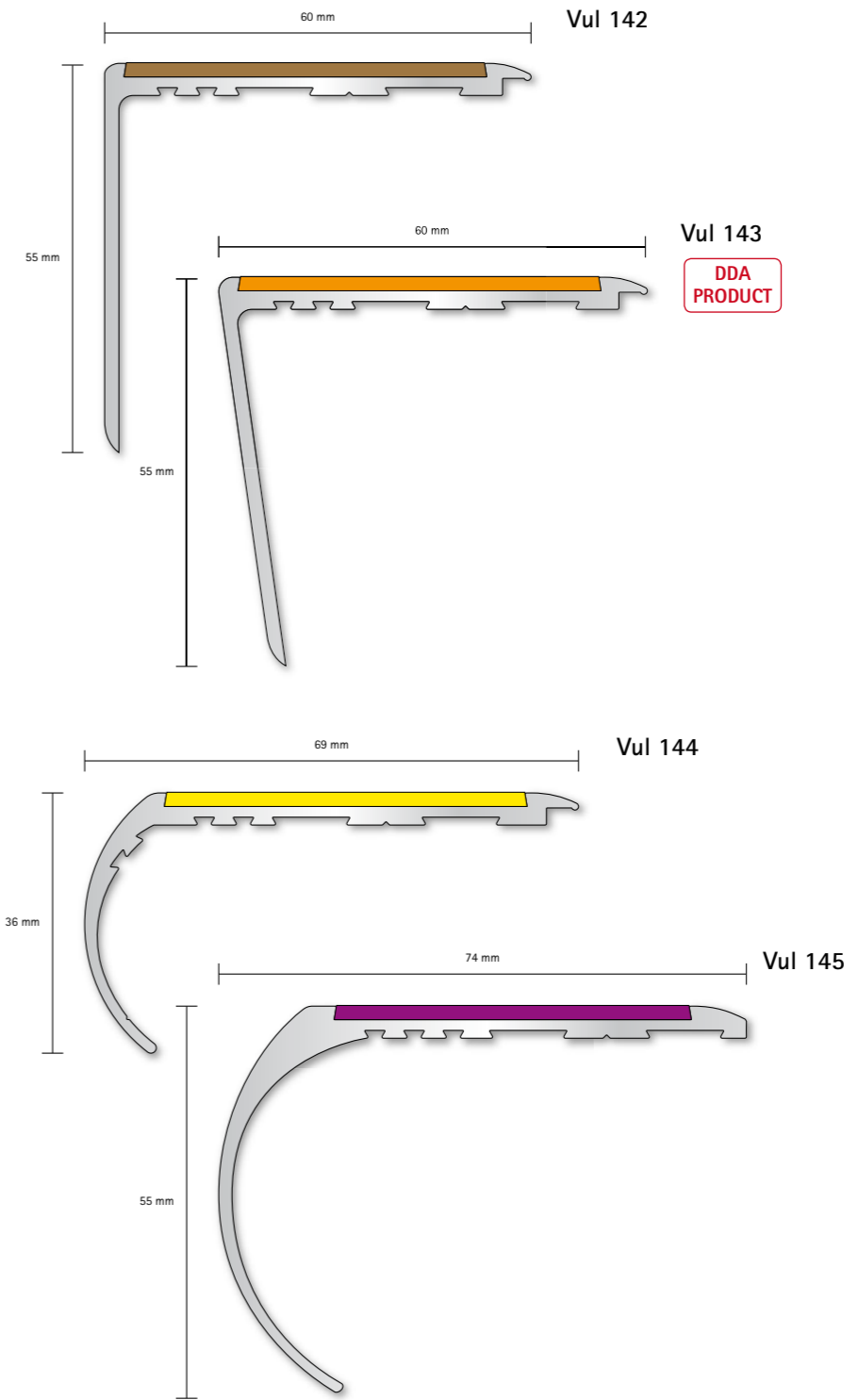
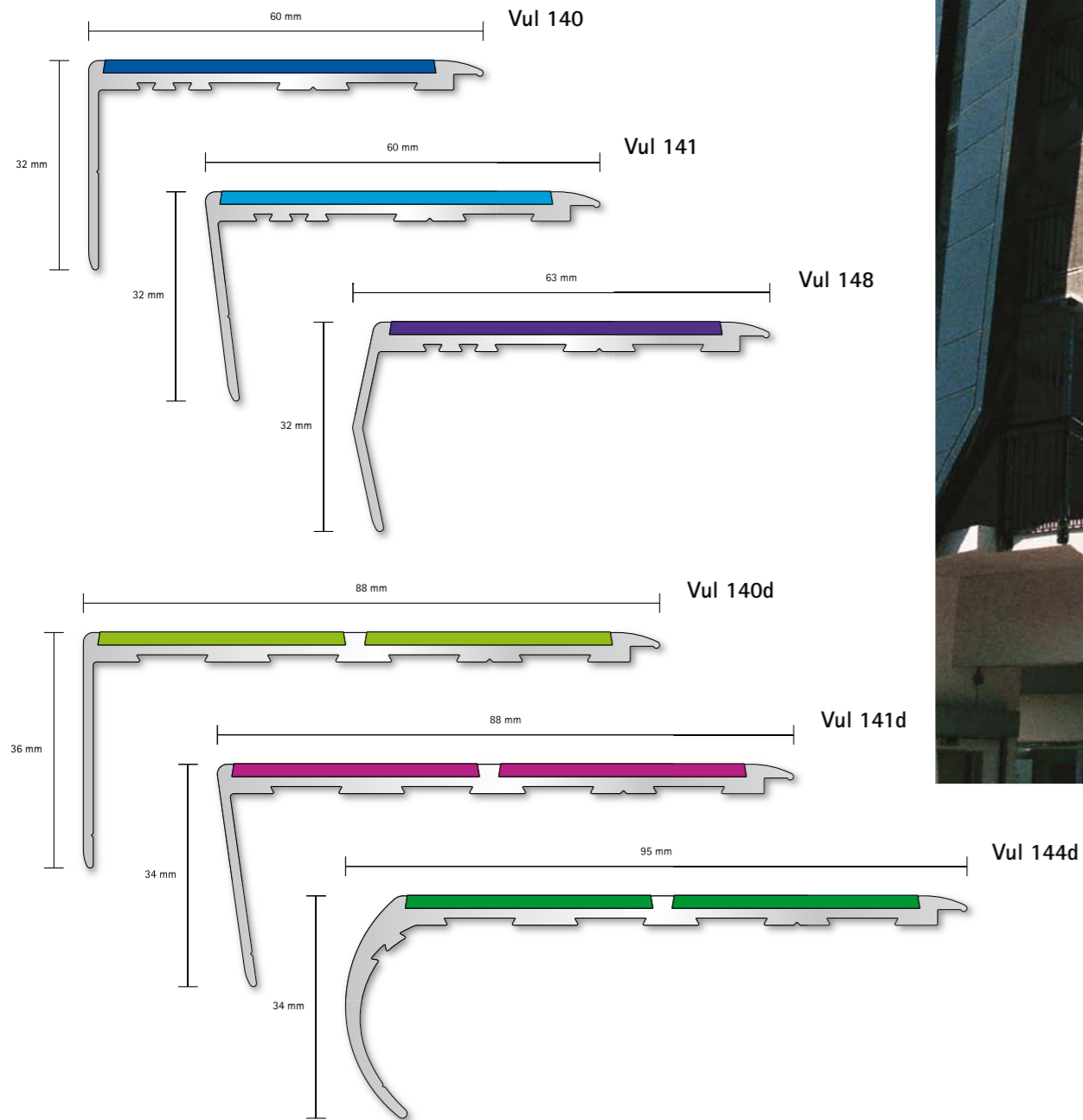
lino™ range

Developed for the 2mm resilient linoleum, the Lino range group of nosing has the unique design feature for the ultimate edge protection. Fitting instructions, opposite, show clearly the benefit of specifying the right product.

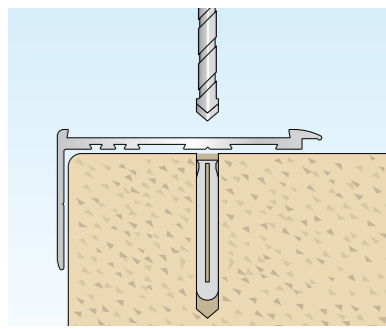
With rigidity built into the design, the true performance is for the contractor, having a central heavier 4mm mid section to give positive edges for a no. 8 countersunk screw.

As with all illustrations, full size is shown, but may be subject to minor design changes.

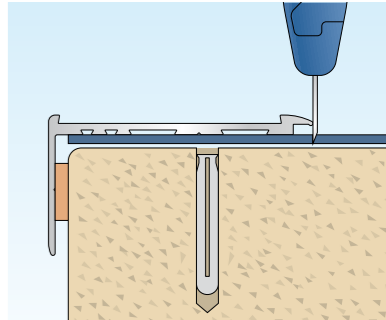
All standard metal finishes available.



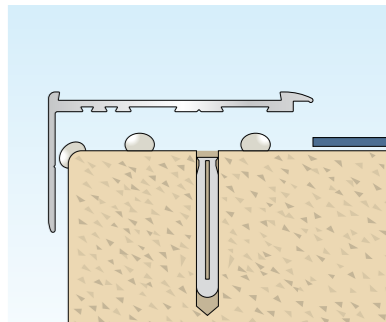
For brass lino step nosing, please see page 14



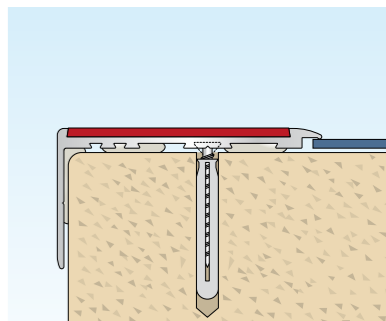
i. Offer up step nose, mark holes, remove edge, drill & plug



ii. Lay lino down. Put nosing on top. 3mm pack between riser face of stairs and back of nosing. Vertical face of nosing. Trim lino as normal with recommended tool.



iii. Remove packer and glue at indicated points. Position nosing & screw down. Ensure screws are flush. To fit insert, ensure correct length and refer to page 17.



iv. Edge protected, glue joint hidden, spillages rejected, wear reduced and non trip transition. Fixing hidden.

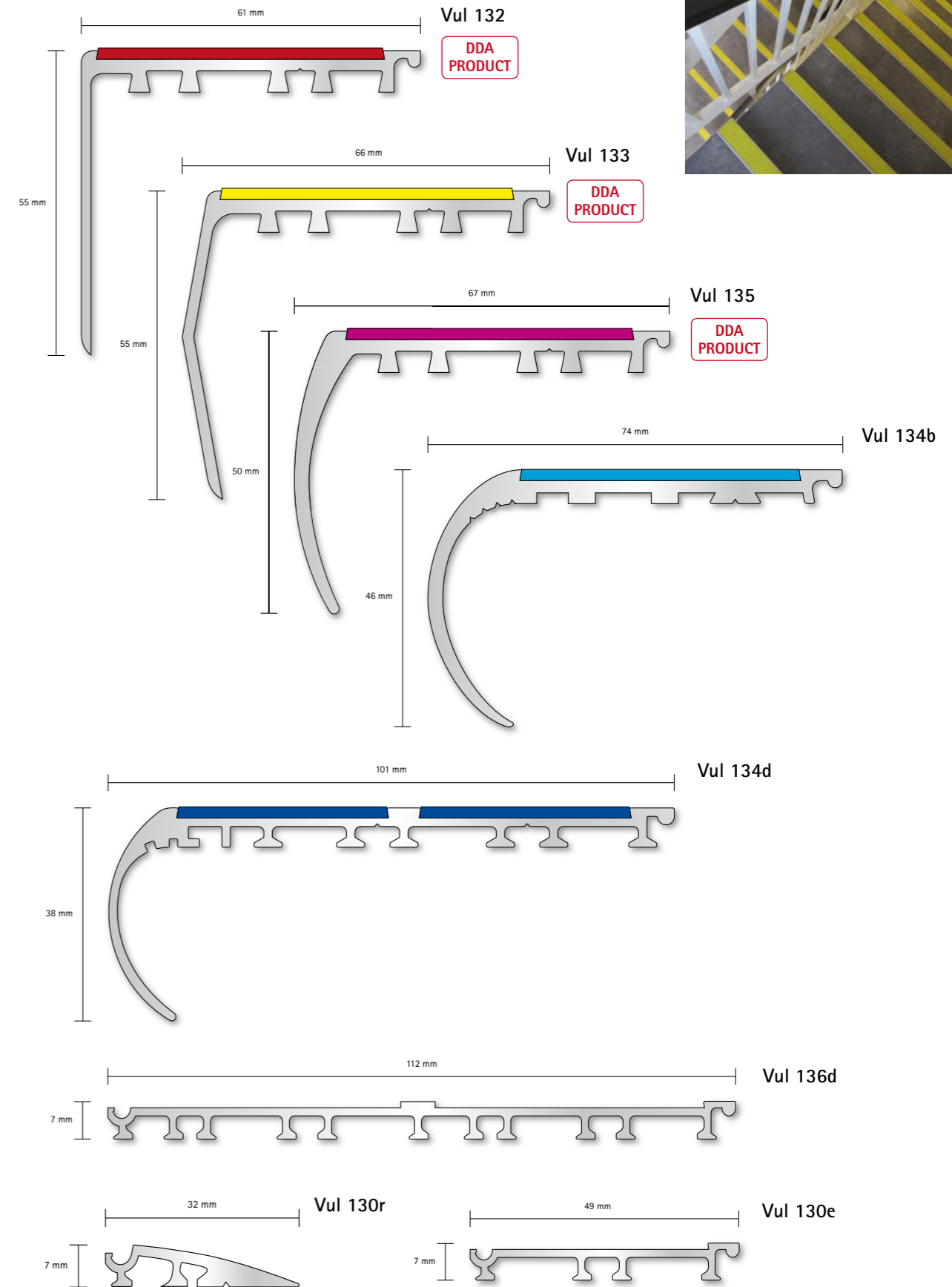
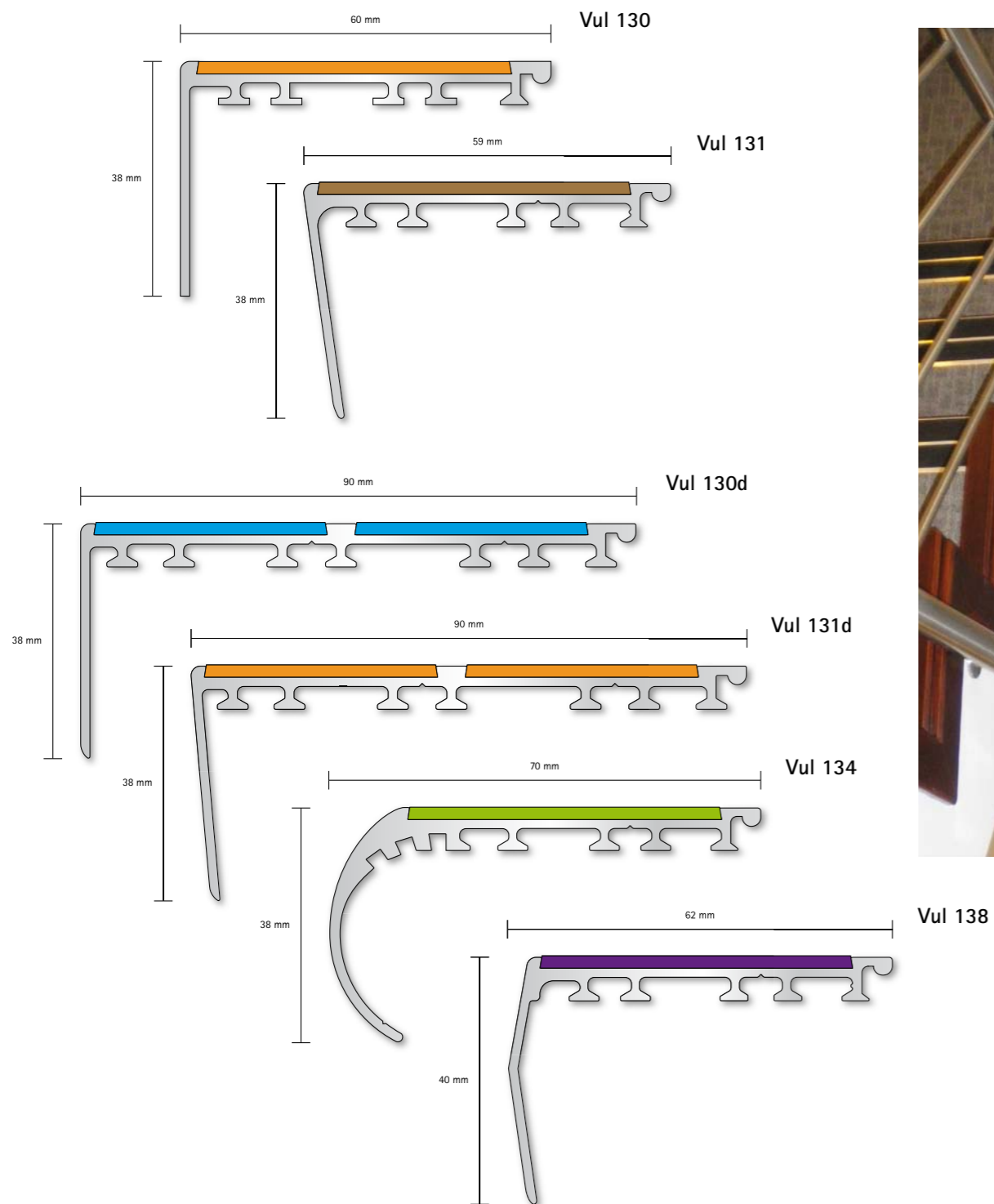
interlink™ range

STEPPED

The Interlink Range is an attractive product due to having the deepest standard nose drops available. Beautifully easy to handle and fit due to the rigid design and positive feel. Designs to meet all substrate needs have been catered for, and the 55mm nosing's marked with the DDA note, meet Part M, May 2004.

This range of nosing's is suitable to be used with all major manufacturers' floor coverings and can be project personalized with any RAL colour insert* or metal finishes of Aluminium, Anodized, Polished or Mirror.

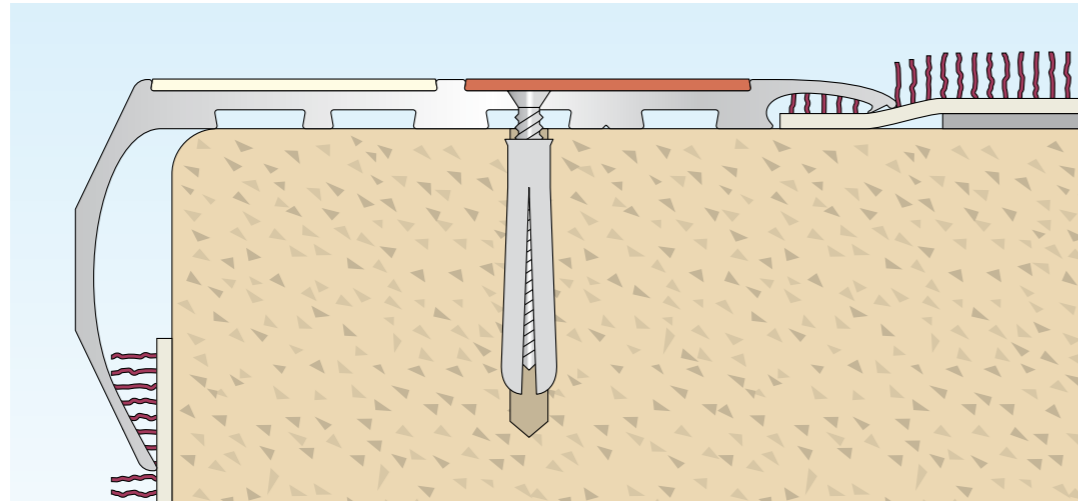
Interlocking sections available to extend across the whole tread, leaving a maintenance free surface.



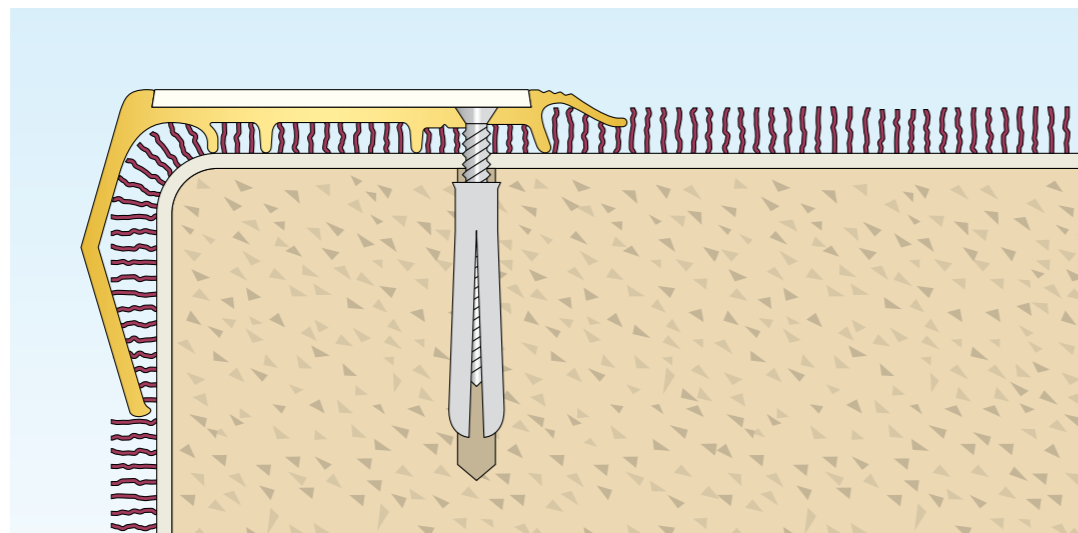
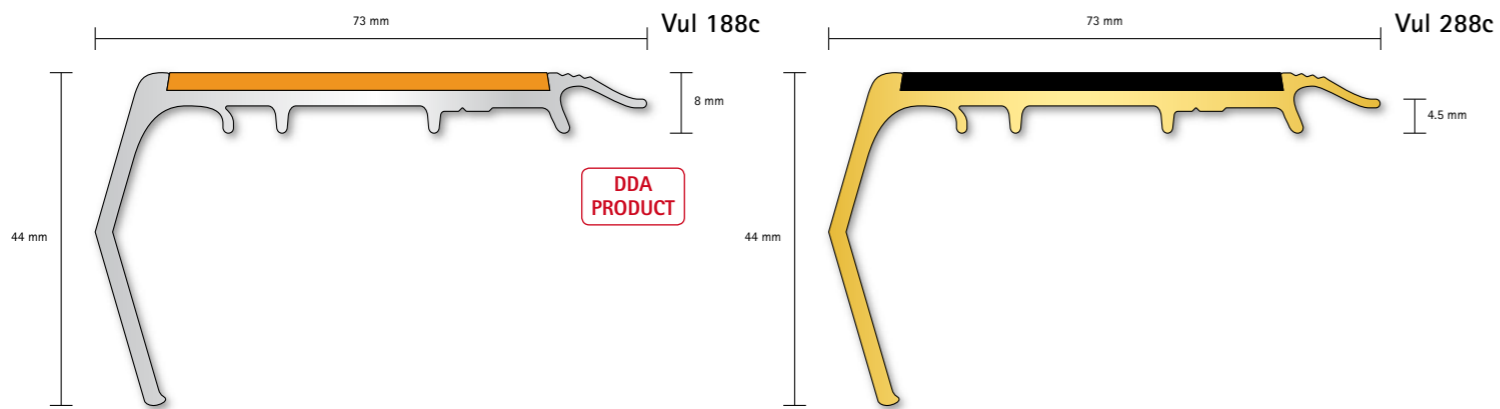
retro fit range

The perfect retro fit nosing for any completed project. The 180 range can be used to either repair worn carpet by overfitting (Vul 188c or brass Vul 288c) or secure the carpet back to the nosing with Vul 188cr.

Note, in the absence of adhesive, these products are drilled and countersunk every 200mm



Vul 188crd with mulberry carpet, terracotta rear insert and cream front insert



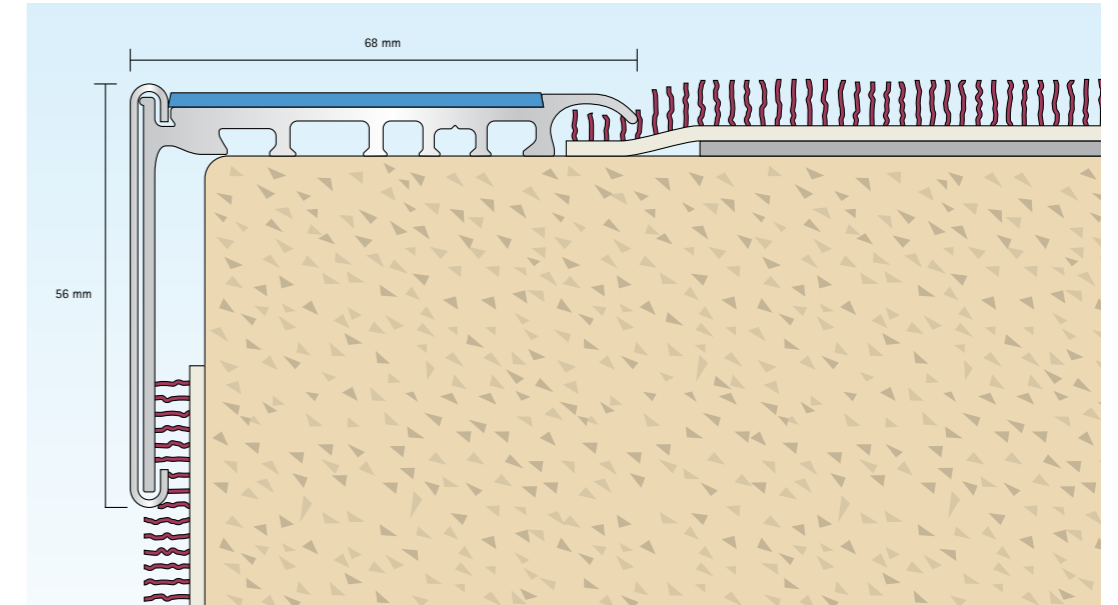
Product pre-drilled for rapid site upgrade with ivory insert

Stainless stair fronts



Aluminium overlaid with Stainless Steel engineered sheet. Available brushed or bright stainless for the ultimate entrance. Can be specified as new or as the 188crd – cut in to give years of extra life.

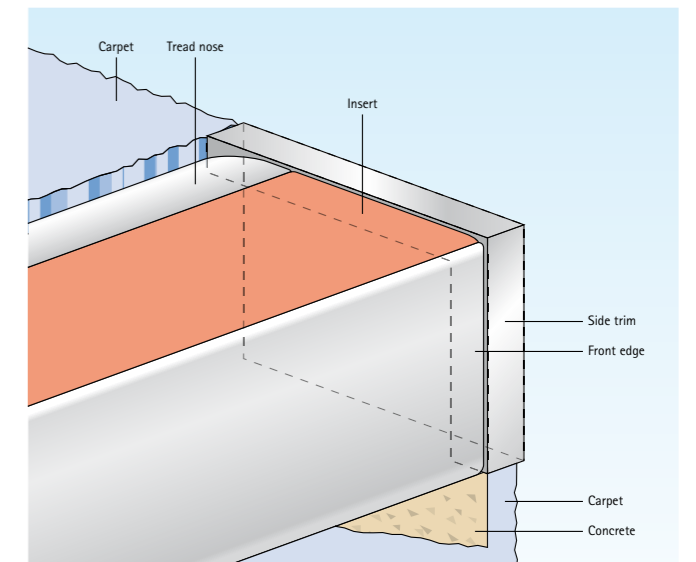
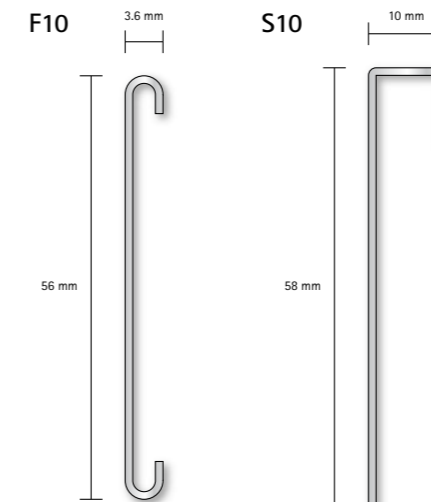
Standard lengths at 2m or 1.2m cut to size and drill options apply.



Vul 182s with blue insert and stainless trim edge

Trim edges

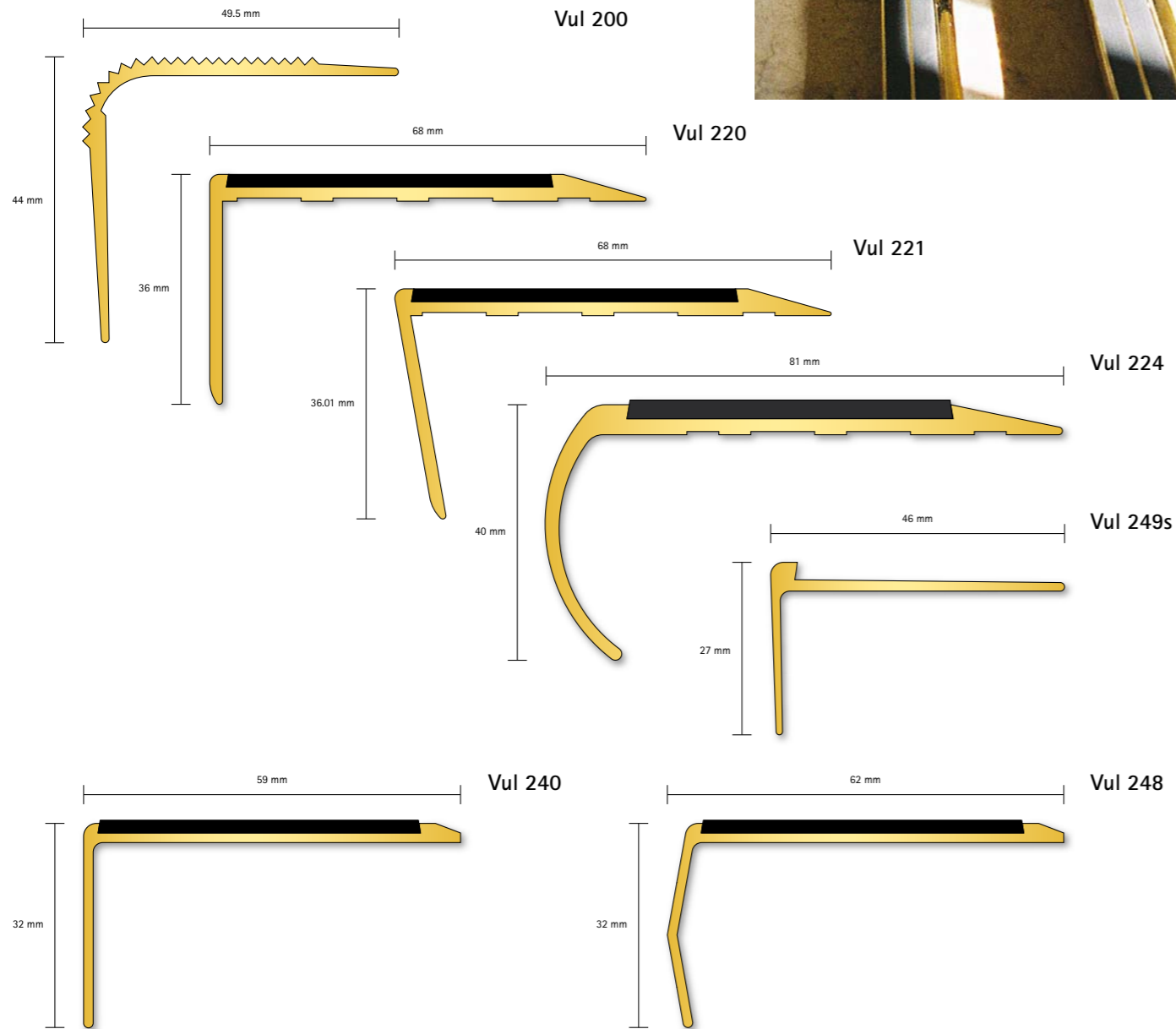
The F10 trim is solely for the use with the VUL 182s section but the S10 side trim can be used with any of the aluminium range especially with sections requiring a polished front edge.



Available as a complete staircase trim or a stop end only (illustrated).

brass range

The highest quality nosing for the highest quality project. Polished Brass Designs for all stair substrates, shapes and styles. External step products can be achieved by using the VulcaGR!P® insert product or the VUL 200 which has no insert. Ramp back profiles mean that all Hotel Terrazzo interiors can be upgraded in an instant. Used with the correct adhesives, these can be placed straight on the substrate, with no mechanical fixings. Ramp backs can also be placed and secured on a floor covering. The Brass Interlink can help extend the tread coverage to give more stability underfoot and the front insert can be a differing color to the back insert to help meet DDA.



for Brass and Stainless Tactile and step edge products please see page 20.

LRV	Colour	BS Ref	
0-4	Black	00E 53	
95-99	White	00E 55	
52	Light Grey	00A 05	
8	Dark Grey	00A 13	
6	Plum	02C 40	
30	Fawn Brown	04B 21	
14	Burgundy	04C 39	
10	Terracotta	04D 45	
13	Scarlet	04E 53	
12	Ochre	06D 45	
24	Brilliant Orange	06E 55	
6	Chocolate	08B 29	
10	Harvest Brown	08C 39	
49	Deep Yellow	08E 51	
69	Lemon Yellow	10E 53	
15	Dark Olive	12D 45	
37	Lime Green	12E 53	
8	Bottle Green	14C 39	
16	Grass	14E 53	
7	Midnight Blue	18E 29	
14	Steel Blue	18E 53	
6	Navy Blue	20C 40	
10	Violet	22D 45	
85	Photo Luminescent		

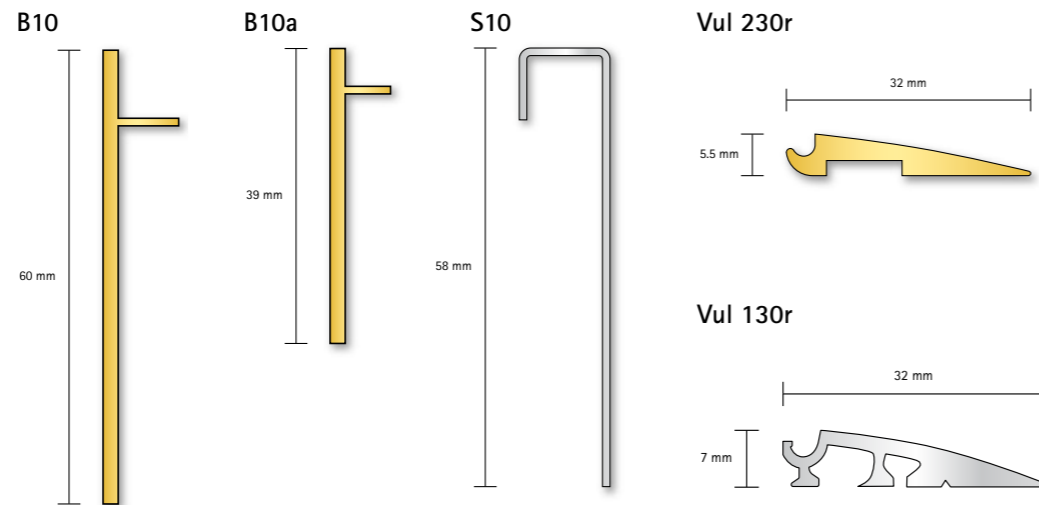
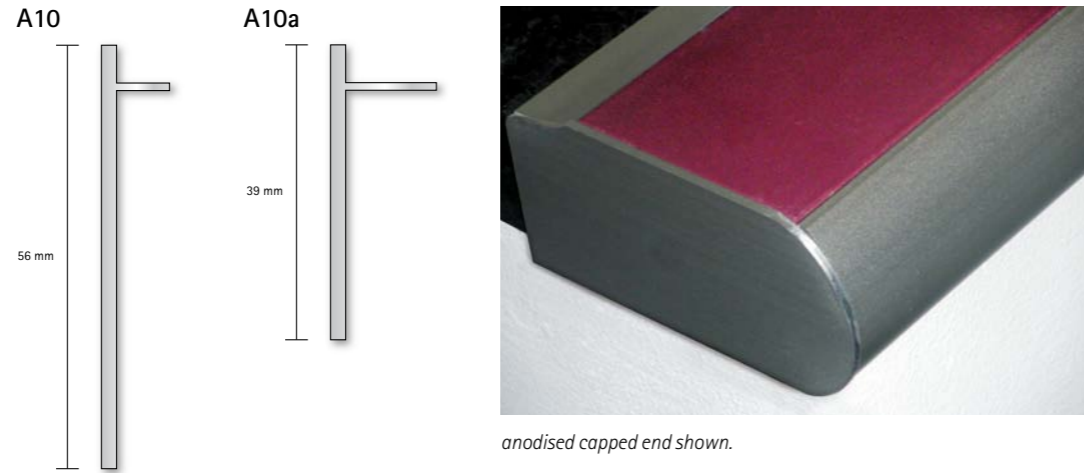
trims range

Side trims

Available in 3 styles

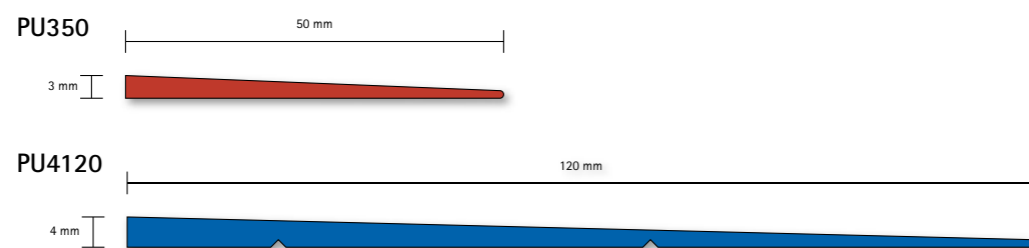
- i) Complete stringer trim, rising and going
- ii) Nosing trim, going only
- iii) Capped end

These are all supplied separately to be secured on site.

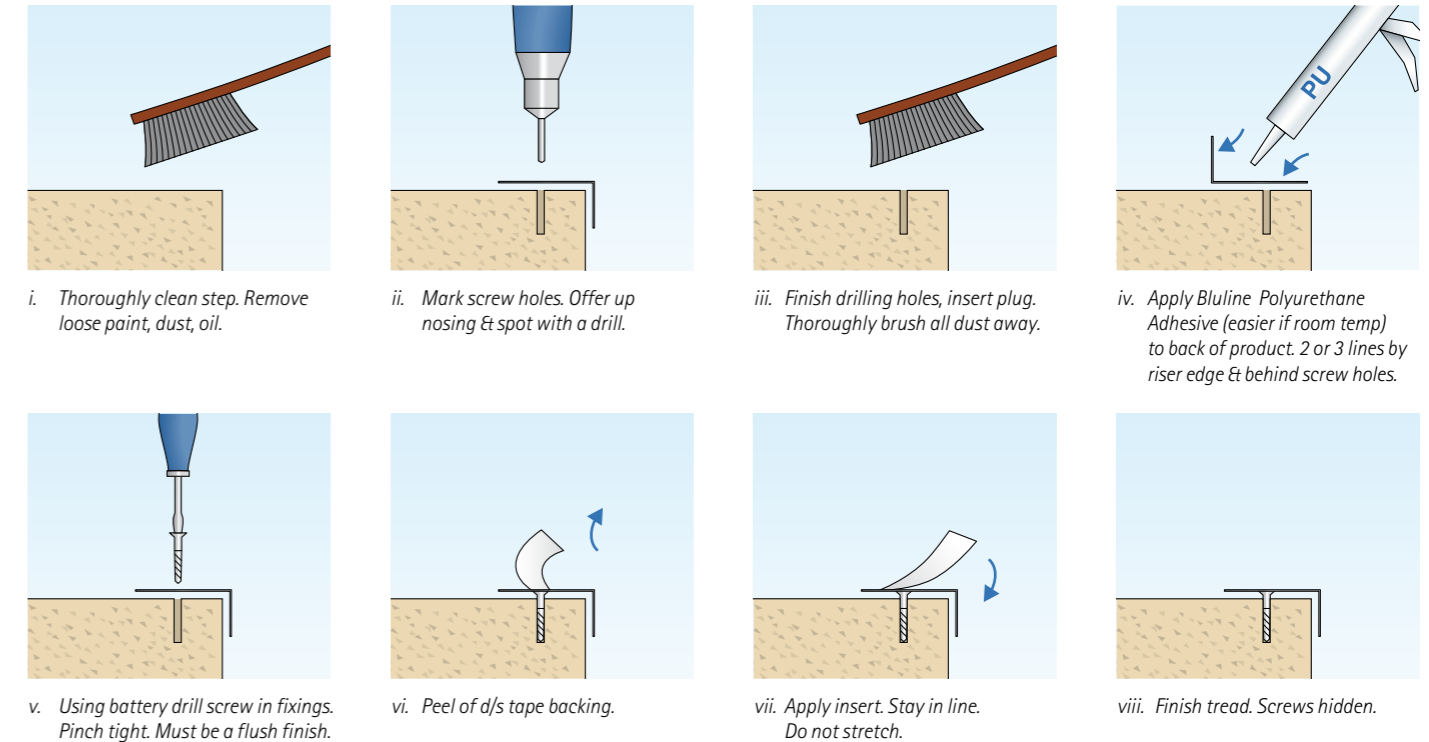


Bevel

PVC flexible bevel strips can be used under linoleum floor covers to enable the use of a heavy duty stair nose. This allows for a smooth transition between nosing and floor cover. As with the brass nose Vul 249s it is advisable just to smooth the taper edge with a PU adhesive to remove the 1mm step.



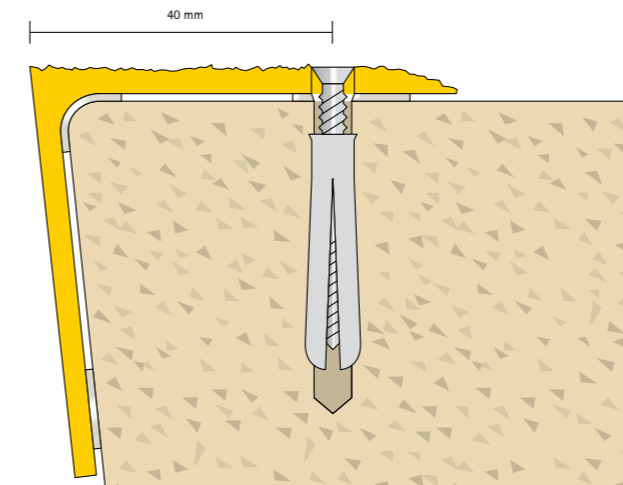
fitting guide



Vulcagrip 55 x 55

DDA STANDARD

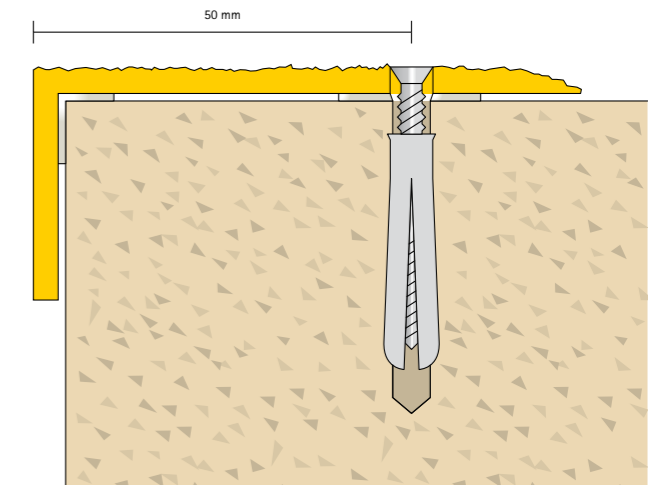
- Available white/yellow/specials
- 3 lines of Bluline Polyurethane Adhesive as indicated
- Minor indents/chips can be filled with glue Drill 6mm hole
- No 8c/s stainless screw fitted flush



Vulcagrip 70 x 30

DDA UPGRADE

- Available white/yellow/specials
- 2 lines of Bluline Polyurethane Adhesive as indicated
- Drill 6mm hole
- No 8 c/s stainless screw fitted flush



Why PU glue?

Because it lasts the life of the carrier product, cushions the product against knocks, has been salt spray tested, is compatible with steel, concrete, wood, marble, lino, aluminium, GRP & stone.



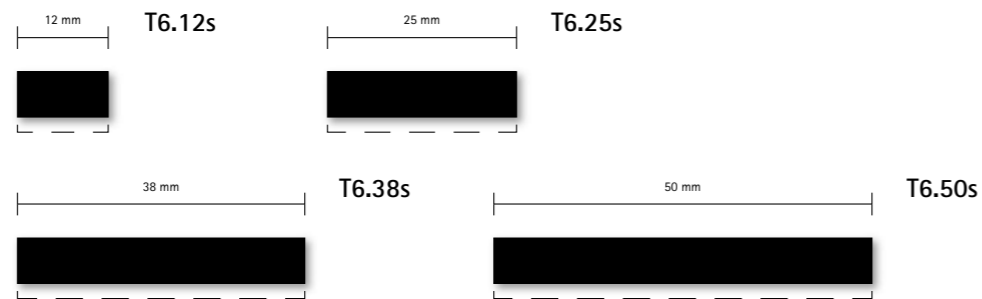
traverse™ range

A permanent, integrated step insert to create high grip tread zone in stairs, ramps or large floor areas. It is the original composition of rubber with added high friction, hard wearing properties.

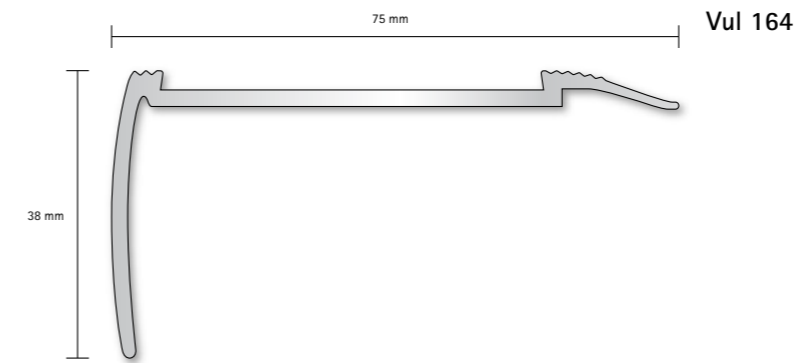
These inserts can be used in conjunction with terrazzo, concrete, marble, stone or wood. It is adaptable in application as it can be set into steps at time of casting, bonded with adhesive into precut channels or screwed to the substrate. When inserted into Vulcan's range of Aluminium VUL 163t nosing, this product reaches DDA standards on the tread and the riser.

With the increasing need for inbuilt safety on steps and the long established track record of the performance, it comfortably meets the need of Architects, specifiers and contractors. Available in strips of up to 3.0m as standard or discs for a feature line. Please call for specification.

Square strips



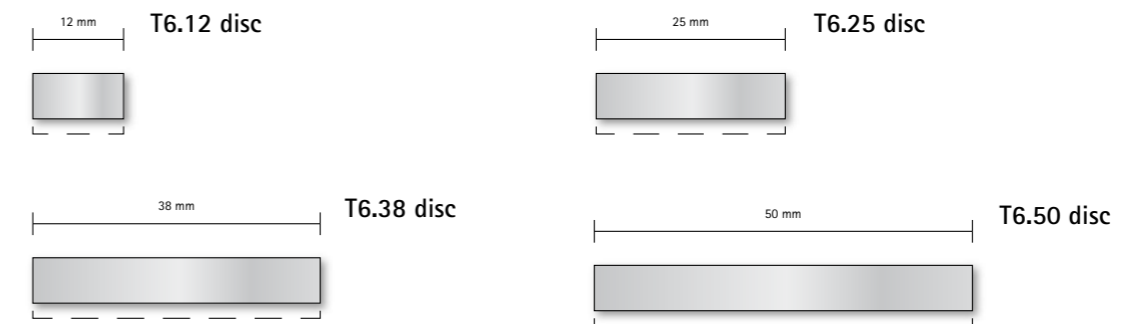
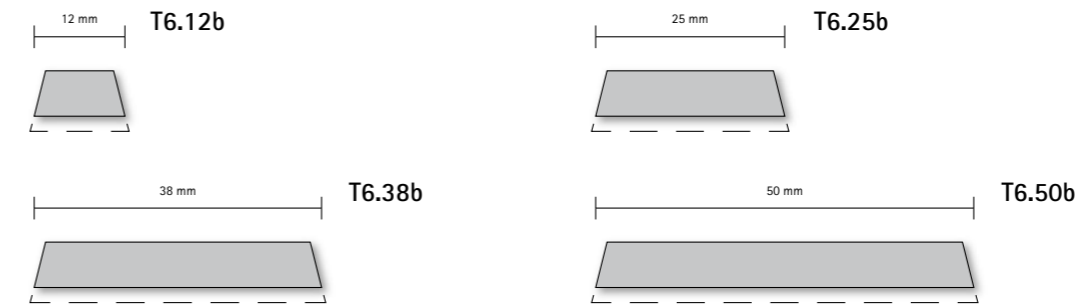
Also available in T8. sizes



Flat strip inserts



Bevel strips for cast in situ applications



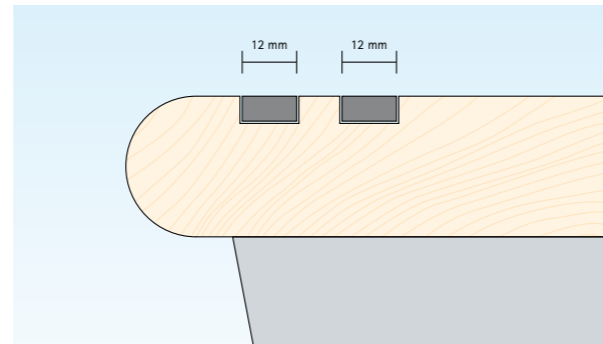
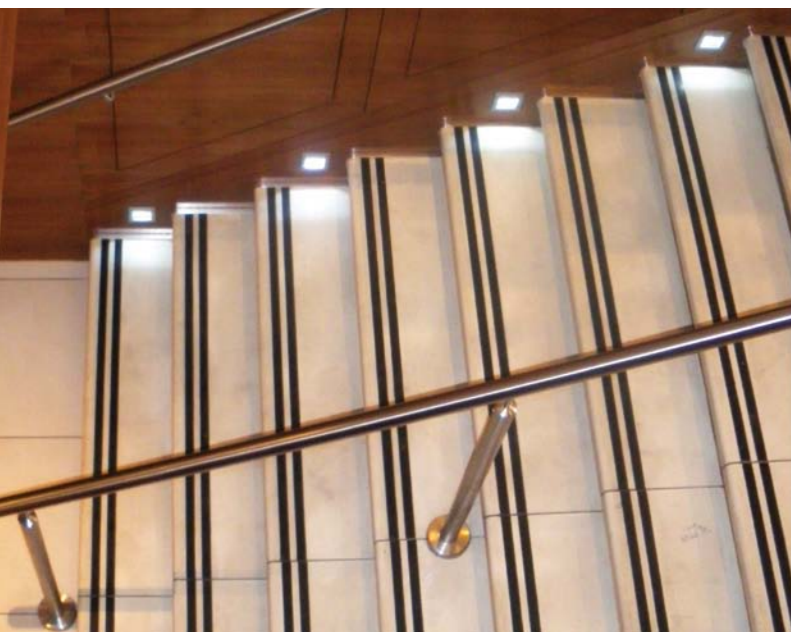
Also available in T8. sizes

High Yield rubber tactile plates, see page 25.

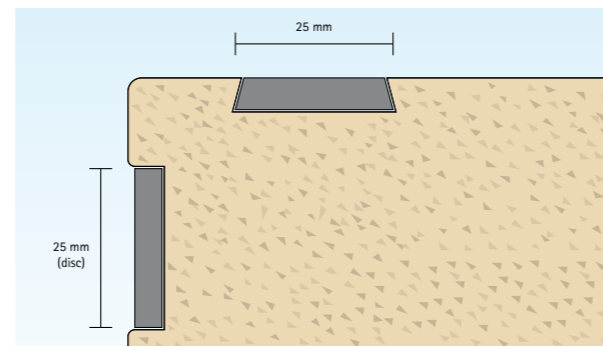
For Technical advice on adhering the Traverse range of products please enquire about the Bluline Polyurethane Adhesive sealant system, only available from Vulcan.

traverse™ range

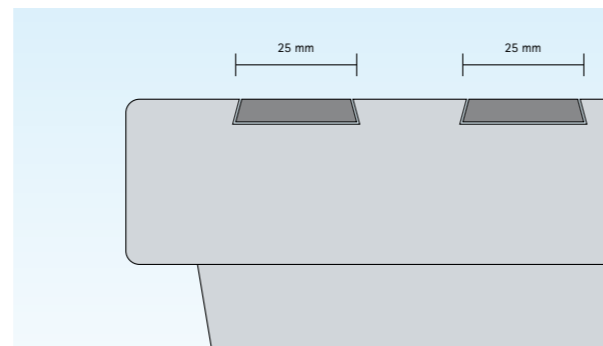
- A very durable surface, giving years of effective service.
- Flush fitting, no trip hazard
- High Friction Rubber Composition
- Choice of styles, colors and sizes to suit all projects
- Internal or external use
- Grit free, easy clean surface



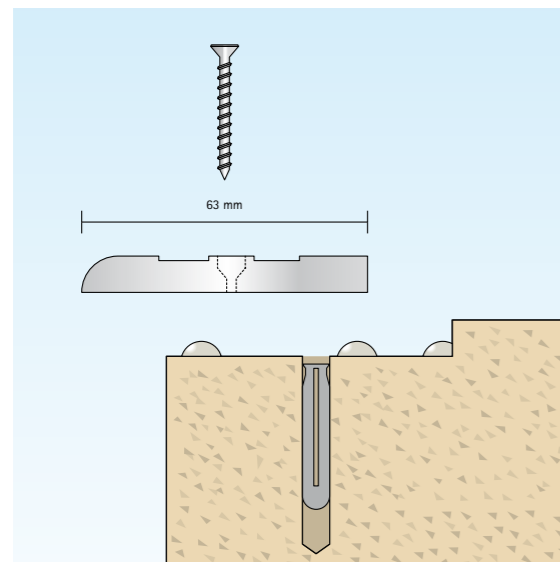
12mm double square insert into timber. 25mm of vision.



Continuous 25mm bevel strip on top edge and 25mm discs on face as featured on the Vulcan project, preceding page. Concrete substrate.

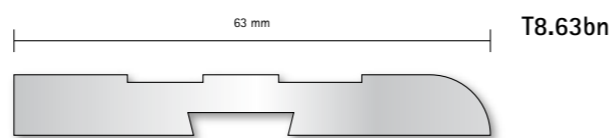
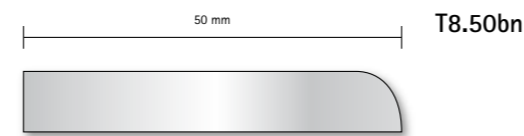


25mm double bevel insert. More underfoot stability. 50mm contrast Color vision. Pre-cast into terrazzo tread surface.



Fitting of Traverse products. Adhesive and mechanical.

Bullnose and notched products for edging.



inserts

PVC (polyvinylchloride)

Used only in interior situations. It passes the BS 5395 test of low risk of slipping in dry conditions. Available in 20 different colours, and suitable for DDA work. A flexible product, which is a matt texture finish, should be attached with an appropriate adhesive system and cleaned with a neutral cleaner, as more powerful chemicals will cause damage.

PVC is unaffected by water but should not be used in wet areas due to an increase in slippage and damage to the adhesive system. Dark colours may fade after prolonged exposure to sunlight. It is a non conductive material but still affected by expansion and contraction. Standard stock colours, see table below, any BS colours available, subject to quantity and delivery times. This insert is really classed as a light to medium duty internal product. Available in cut strip lengths, or rolls of 20m.

LRV	Colour	BS Ref	
0-4	Black	00E 53	
95-99	White	00E 55	
52	Light Grey	00A 05	
8	Dark Grey	00A 13	
6	Plum	02C 40	
30	Fawn Brown	04B 21	
14	Burgundy	04C 39	
10	Terracotta	04D 45	
13	Scarlet	04E 53	
12	Ochre	06D 45	
24	Brilliant Orange	06E 55	
6	Chocolate	08B 29	

LRV	Colour	BS Ref	
10	Harvest Brown	08C 39	
49	Deep Yellow	08E 51	
69	Lemon Yellow	10E 53	
15	Dark Olive	12D 45	
37	Lime Green	12E 53	
8	Bottle Green	14C 39	
16	Grass	14E 53	
7	Midnight Blue	18E 29	
14	Steel Blue	18E 53	
6	Navy Blue	20C 40	
10	Violet	22D 45	
85	Photo Luminescent		

GRP (glass reinforced plastic with a gel coat and alumina grit aggregate)

A most resilient 2 pack (resin and catalyst) mix, added to glass fibre matting, produces a semi structural product when set. Over sprayed with the alumina grit at the wet stage of the production, the coarseness becomes an integral part of the finished item. Also available in Class 1 fire rated isophthalic resins and phenolic resins can be used for non smoke and non toxic situations. Standard colours are Black (00E 53), White (00E 55), Light Grey (00A 05) and Lemon Yellow (10E 53) but any BS colour can be achieved subject to quantities. This is a heavy duty product, unaffected by chemicals or sunlight, impervious to water and will give many years of service. Available in cut lengths. Standard length strips are 1200mm or 2400mm. Application advice for any situation can be given by Vulcan.

TRVERSE (rubber composition with added high friction properties)

Hard wearing, long lasting, easily visible awareness edge. Suitable for all stairs, ramps and flooring details. Suitable in many of the nosing throughout this brochure, the insert strip can be taped (specialist double sided) or adhered to the carrier. When cast into concrete mould, the bevel product requires no mechanical or fixing medium, due to the woodruff key shape. However, retro fitting this product into pre cut slots inserting discs into holes is possible and should be screwed or glued. Expansion of this product in relation to the substrate needs to be carefully considered if only gluing. Vulcan can assist in any detail. Pigment rich with added natural fillers means UV over exposure causes very little fading. Clean regularly with light household cleaners, compatible with most products, non conductive and suitable for external and internal applications.

Colours shown are for guidance only due to printing tolerance.

For accuracy please request samples.

Full COSSH regulation sheets on all insert products can be submitted on request.

None of the Vulcan's carriers or carried products support bacterial growth and the inserts themselves have a good resistance to common chemicals.

Regular cleaning ensures optimum performance.

ground surface indicators

Ground Surface Indicators (GSIs) are used where pedestrians with impaired vision need alerting to impending hazards and help with directional guidance.

Individual VTac studs or, corduroy bars in stainless steel, brass or PVC, brass or stainless steel can be used internally or externally for retrofitting. They do not detract from the attractiveness of the floor but rather enhance the look. The surrounding floor surface shows between the individual GSIs giving a superior architectural appearance. Reference to "guidance via underfoot surface change signals", conforms to DDA guidelines.

PVC GSIs are available in 10 solid colours as standard. Brass and stainless steel GSIs are solid grooved, with an optional non-slip nylon or photo-luminescent insert for quality emergency walkways to benefit everyone.

These studs are very suitable for worn stairs where a straight line edge is not possible. Try it and see.

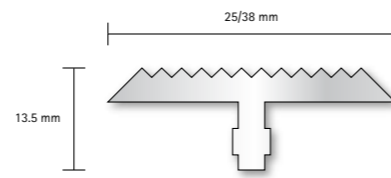
Colour contrast values

Luminescent contrast of Ground Surface Indicators (GSIs) is the difference in the amount of light reflected from the base surface. Tactile Tiles and Stair Nosings should have a minimum 30% luminance contrast while Individual studs should have 45 - 60%.

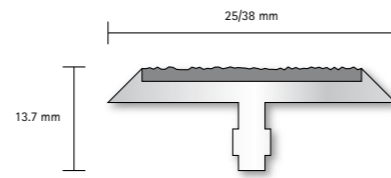
Light reflective values

Material	Colour	LRV	Shade guide
PVC	Black	5	
PVC	White	83	
PVC	Yellow	58	
PVC	Blue	12	
PVC	Red	17	
PVC	Beige	43	
PVC	Grey	26	
PVC	Green	16	
PVC	Silver	47	
PVC	Gold	30	
Bi-metallic	Stainless Steel	38	
Bi-metallic	Brass	36	

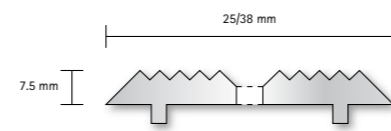
Brass and stainless steel range



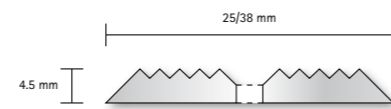
Grooved with stud



Insert with stud

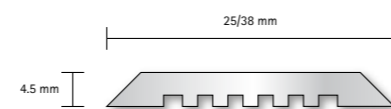


Carpet anchor

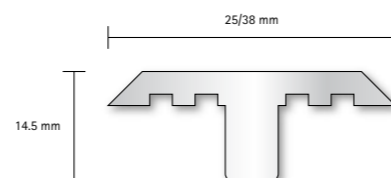


Anchor

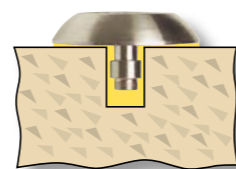
PVC range



PVCa - Adhesive



PVCs - Adhesive stud



for visual and sensory DDA warnings

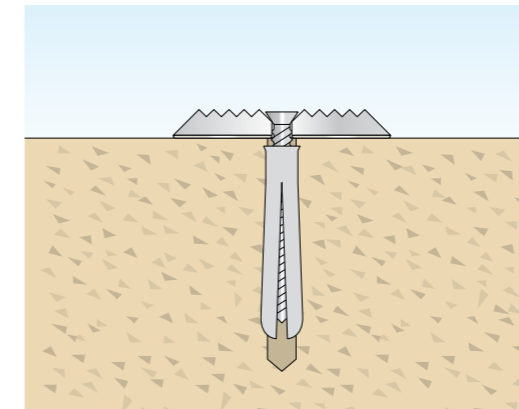
fitting studs

Substrate preparation is of the utmost importance. Clean, dry & free of any contaminants gives a satisfactory long lasting adhered bond. Vulcan recommend to use a 2 part adhesive system at all times. All studs can be retrofitted. Fitting on stair edges prevents wearing of carpet on the front leading edge. See page 24 for diagram of screw fixing through tactile bars (D).

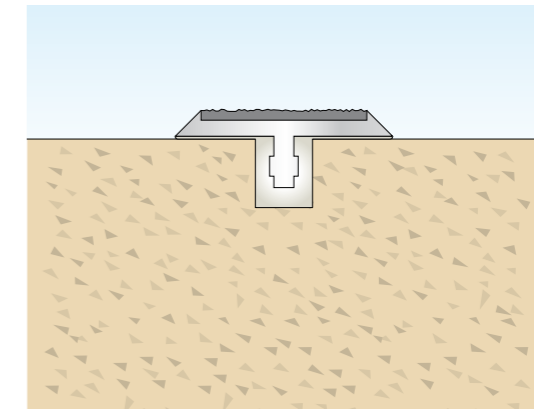
As always, compatibility between substrate and adhesive should be tested on a small unseen area to ensure suitability. Manufacturers' recommendation and instruction should always be followed. Particular care must be taken when fixing through carpets.



Brass and stainless steel range

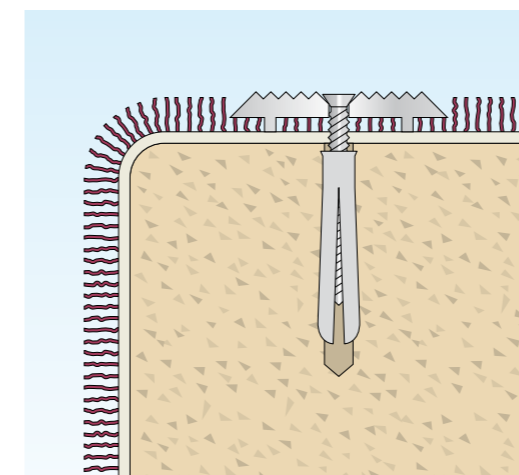


Grooved anchor. Small amount of adhesive to stop spinning



Grooved or insert stud with 2 part adhesive

Suitable for use in Listed or Heritage Buildings as Tactile awareness level change or as step edging for a clear line of vision.

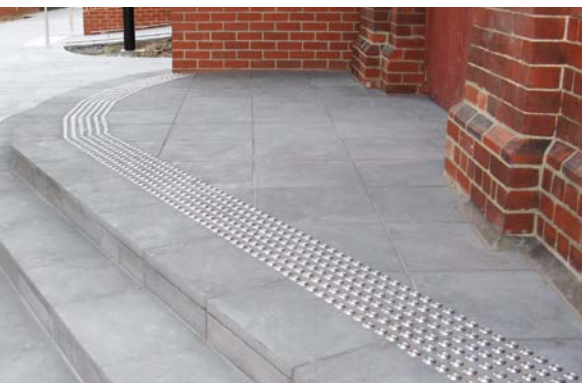
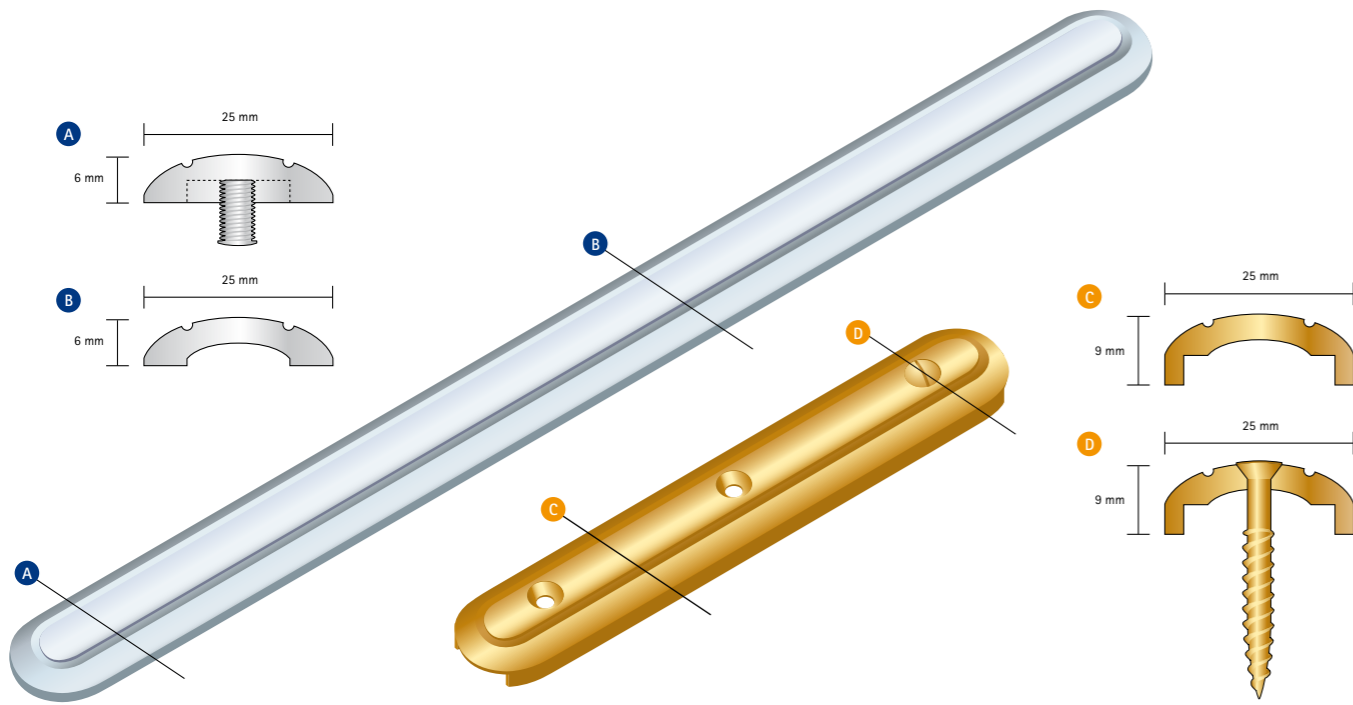


Anchor fitting for a stair nosing or carpet



Stainless anchors

GRP/rubber tactile plates



Blister Surface Pedestrian Crossing Points

VTac Bars are another part of the DDA range, manufactured by Vulcan Architectural. These bars are based on the Current standard sizes that are requested for alerting users as to level changes, especially on stairwells.

Whilst there is a difficulty being able to apply all the current legislation to Listed and Heritage buildings, the material that these products are manufactured from are much more sympathetic with the character that these buildings portray. They have been found to be suitable for this application.*

(*These decisions are subject to the approval from the Area listed buildings officer, and the client and tenant usage.)

The fitting of these bars is guaranteed by the hidden studs along the length, underside (at point A) and a recess for the adhesive (at point B) to ensure that there is no clack when the material is trodden on. The cross section of (C) shows the extra legs depth down the length of a carpet bar. These give product stability around a central fixing.

It is important that all DDA work is set out in accordance with the set guidelines to maintain regular consistent underfoot signals.

Set out plates are available from Vulcan to assist in the correct dimensioning.

Specification Example

Corduroy or Blister Level Change Warning treatment to be provided by retro-fitting of 400(+/-) x20x6mm raised Stud or Bar fittings as manufactured by Vulcan Cladding and Architectural Systems. These are to be fitted to 50mm spacing and, as per the guidance notes produced in accordance with DDA/Part M Regulations, to a depth of 800mm starting 400mm back from top/bottom of step/slope and 400mm only on landing/turning areas. If steps/slopes are open sided, allowance is to be made for coverage 400mm beyond the width of the steps each side. Material to be Stainless Steel/Brass/GRP Composite material in Standard Buff or red or special (any RAL colour) Vulcan;020 8681 0617: sales@vulcanarchitectural.com



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.

Staggered blister 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 platform edge warning surface is recommended for use at:

- heavy rail platforms
- off-street light rapid transit (LRT) platforms
- underground platforms.

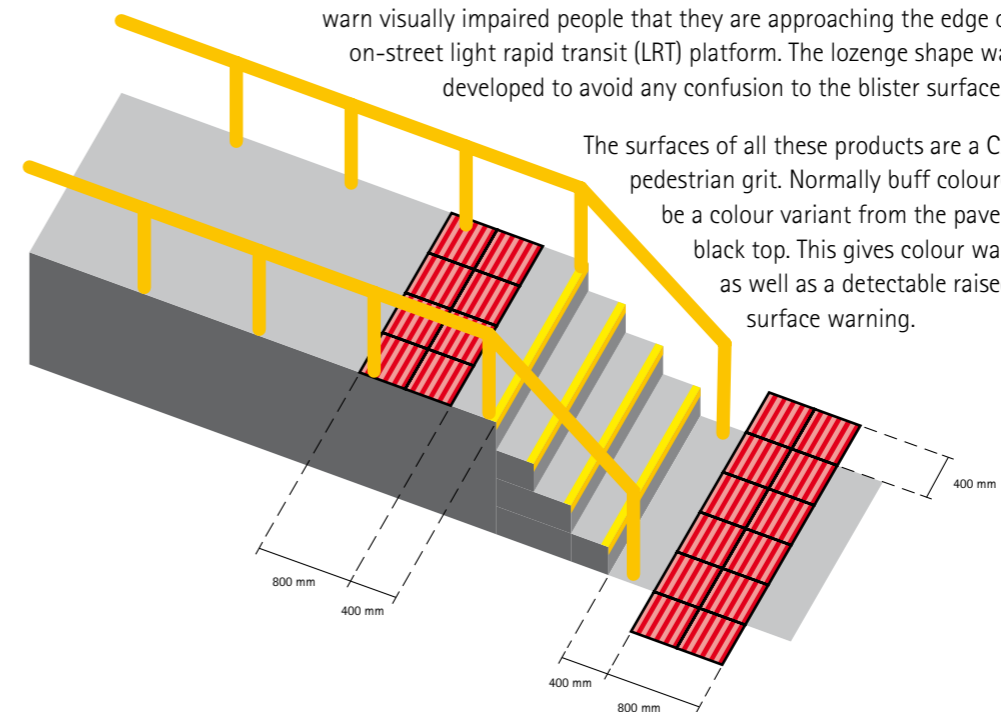
Corduroy Hazard Warning Surface

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 light rapid transit (LRT) platforms. It is also used where a footway joins a shared route (ie cycleways). It conveys the message 'hazard, proceed with caution'.

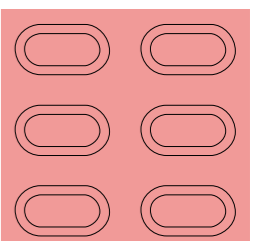
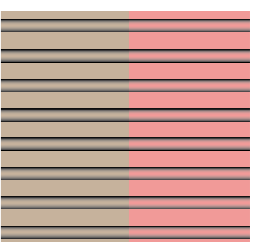
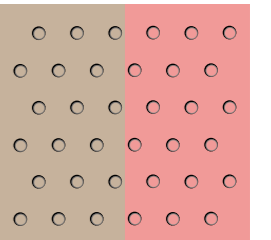
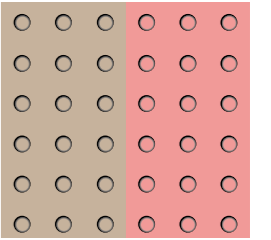
It can be used for any change in level situation, except for pedestrian crossing points.

Lozenge 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 transit (LRT) platform. The lozenge shape was developed to avoid any confusion to the blister surface.



The surfaces of all these products are a C25 pedestrian grit. Normally buff coloured to be a colour variant from the pavement black top. This gives colour warning as well as a detectable raised surface warning.



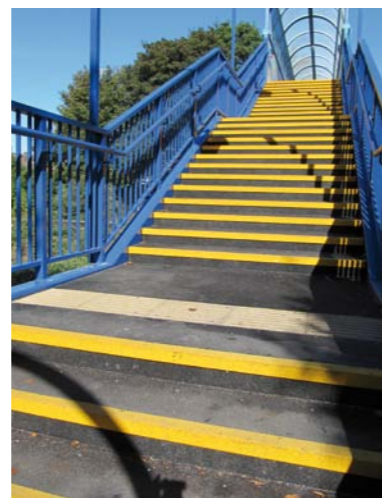
exterior range



A superior fibreglass GRP product, incorporating the highest quality anti-slip properties, with a high vision front edge combined in the manufacture of the surface texture, upgrades treated areas to the standards set out by HSE and the DDA for grip and sightlines.



Before



After

vulcagrip®



Recommended stainless steel fixing with all products available from Vulcan. All sections are subject to design changes without prior notice.



Manufacture

Manufactured by, gritted aggregate applied to resin profiles at the wet stage of production in order to give maximum anti-wear properties and minimize any deterioration in surface performance. This product can be manufactured in General Purpose Class 3 resins, Class 1 fire-rated Isophthalic resins, or, for non-smoke and non-toxic gas situations a phenolic resin can be used. The Fused Alumina grit becomes an integral part of the tread and the nosing can then be two-pack over painted to the client choice of any BS colour.

This product features heavily in the DDA scheme of requirements due to the contrasting colours available on the tread and the nosing area.

Product Range

The VulcaGR!P product range consists of Stair nosing's, complete Stair treads, Flat sheets and Ladder rung covers. Strips for Decking planks give the ultimate grip even in wet conditions.

Solid GRP nosing's are available in two standard sizes, 55mm x 55mm (VG55) and 70mm x 30mm (VG70).

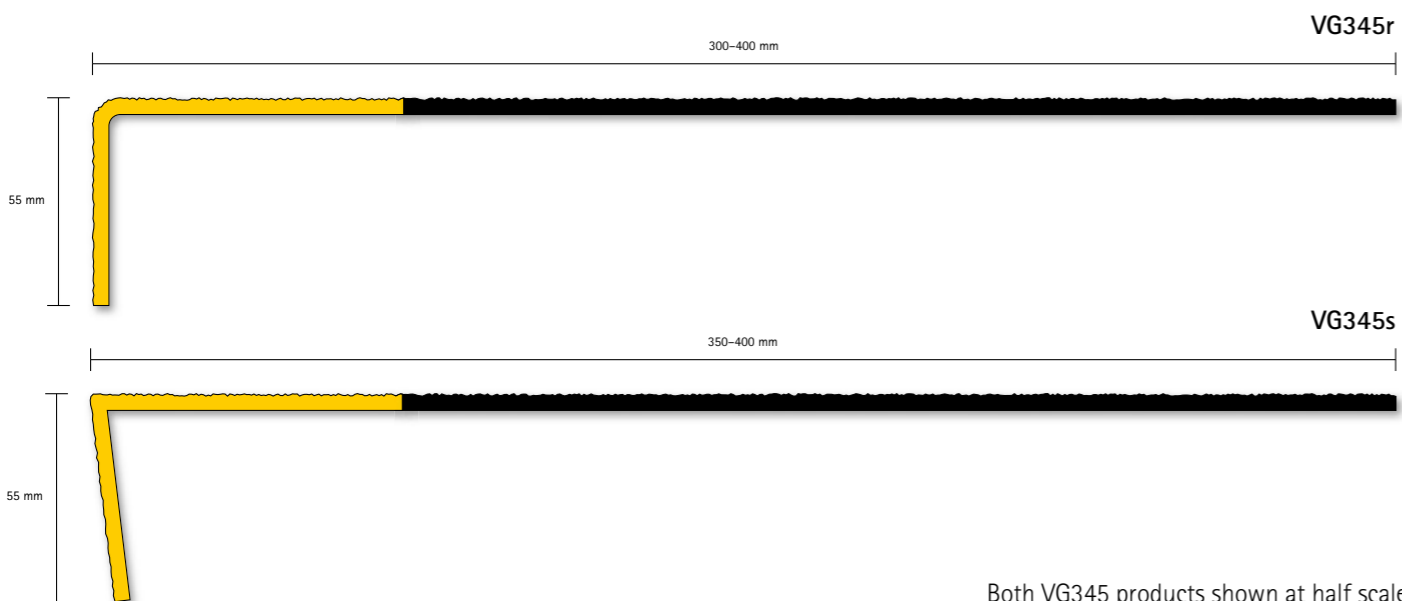
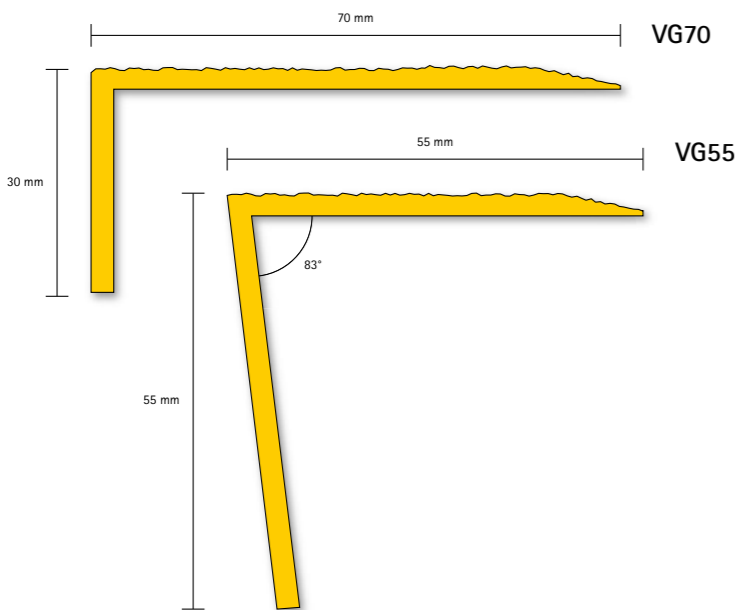
The complete Stair treads are produced in 300mm and 400mm sizes but can be cut to any depth from 150mm upwards. Standard colours are White, Yellow, and Black, but any color of the 100 BS range can be an option. A 55mm downturn on all these profiles gives the correct level of vision.

Flat sheets are used to complete Landing areas, walkways & access ramps.

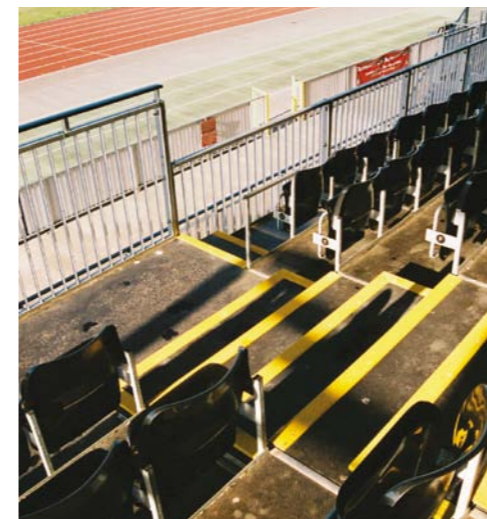
On a very thin backing sheet of 1.5mm, VulcaGR!P can be used in our Aluminium, Brass and Stainless Steel ranges of treads.

Installation

The VulcaGR!P range of products can be delivered to site cut to size. 115mm diamond saw blades and tungsten carbide drill bits are available from Vulcan to assist site trimming. Due to the versatility of the product, it can be fixed mechanically to most substrates using various means of fixture, Screw and plug, rivets, washers & spaced, for open waffle steps. An adhesive has been specially formulated to match the performance. This is **Blu-line**, a polyurethane adhesive sealant. Salt spray tests, as well as the usual instant grab and performance tests, mean that this product can be recommended for all fitting projects.



Both VG345 products shown at half scale



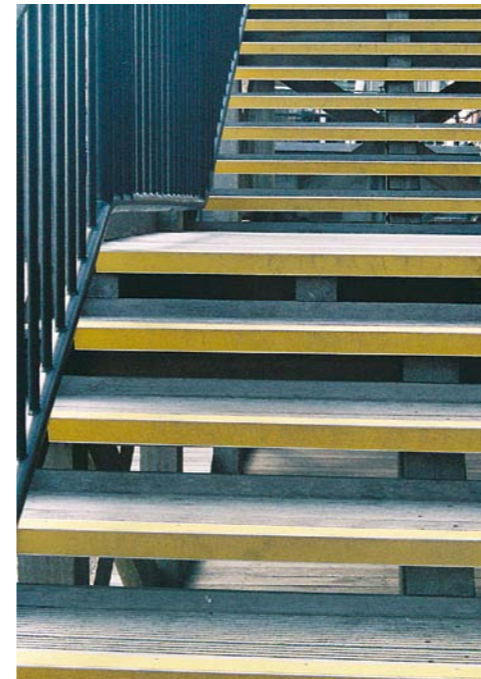
VG70 C16 yellow



VG70 C16 special colour BS 00E53



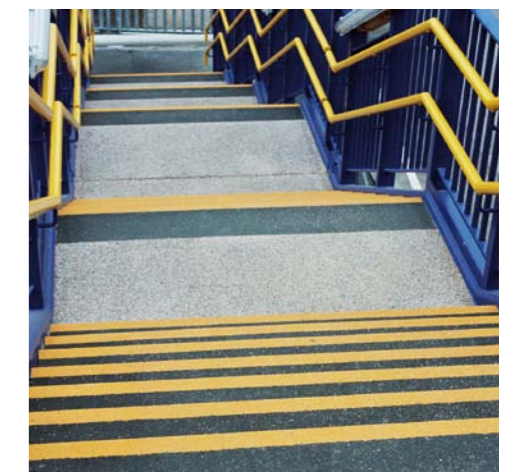
VG70 C25 yellow



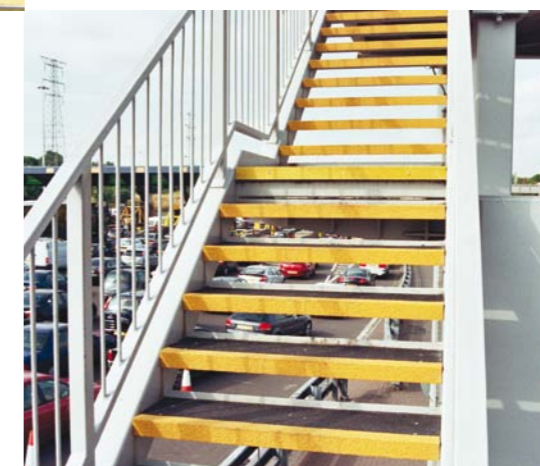
VG55 C25 yellow



VG345r C40 hotel corporate colour BS 04D45 tread RAL 9010 nose



VG345s C16 Black 00E53 tread and 10E53 nosing for contrast



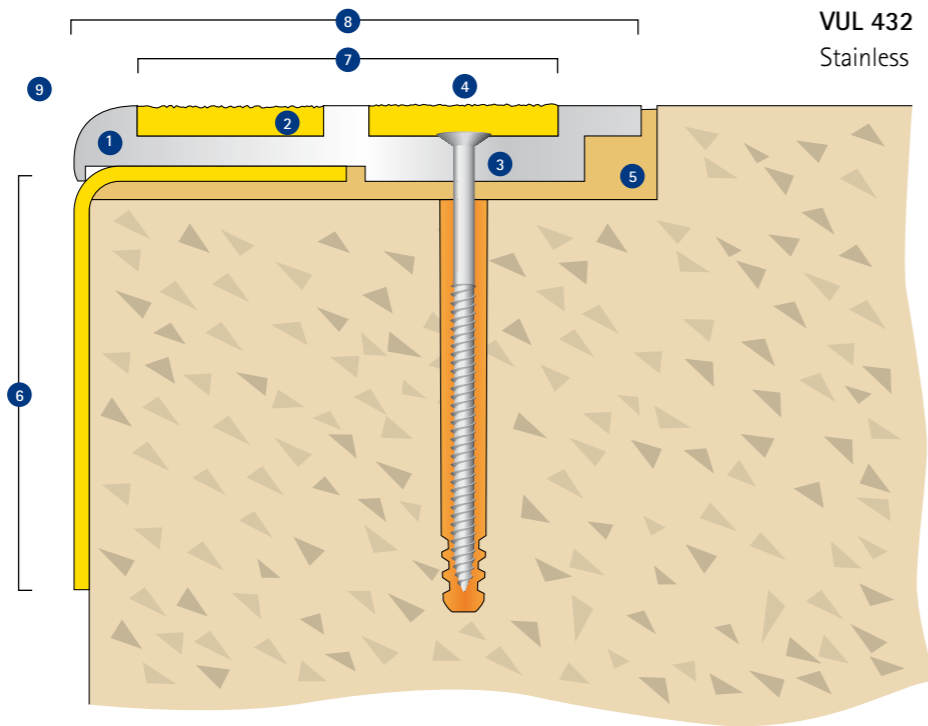
VG345s C16 Black 00E53 tread and 10E53 nosing for contrast

Three grit levels are available, C16; most common, and industrial, C25; internal communal areas, prisons etc, C40; Barefoot level. Swimming facilities.

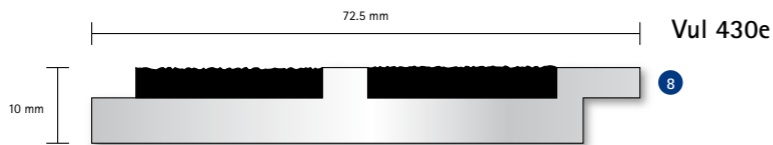
Schools, Car Parks, Shopping Centers, Pedestrian Footbridges & Subways as well as Health and Safety in Factories, Harbors & Marine environments, Fire escapes and access slopes can all be quickly and easily upgraded.

Vulcagrip products exceed a reading of 80 in the SLIP RESISTANCE TEST BS 7676: Part 2: 2002 pendulum tests.

heavy foot traffic, new build or edge repair

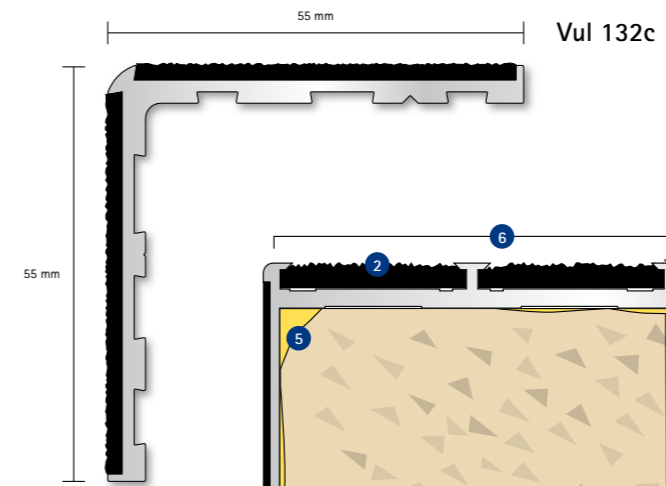


VUL 432
Stainless

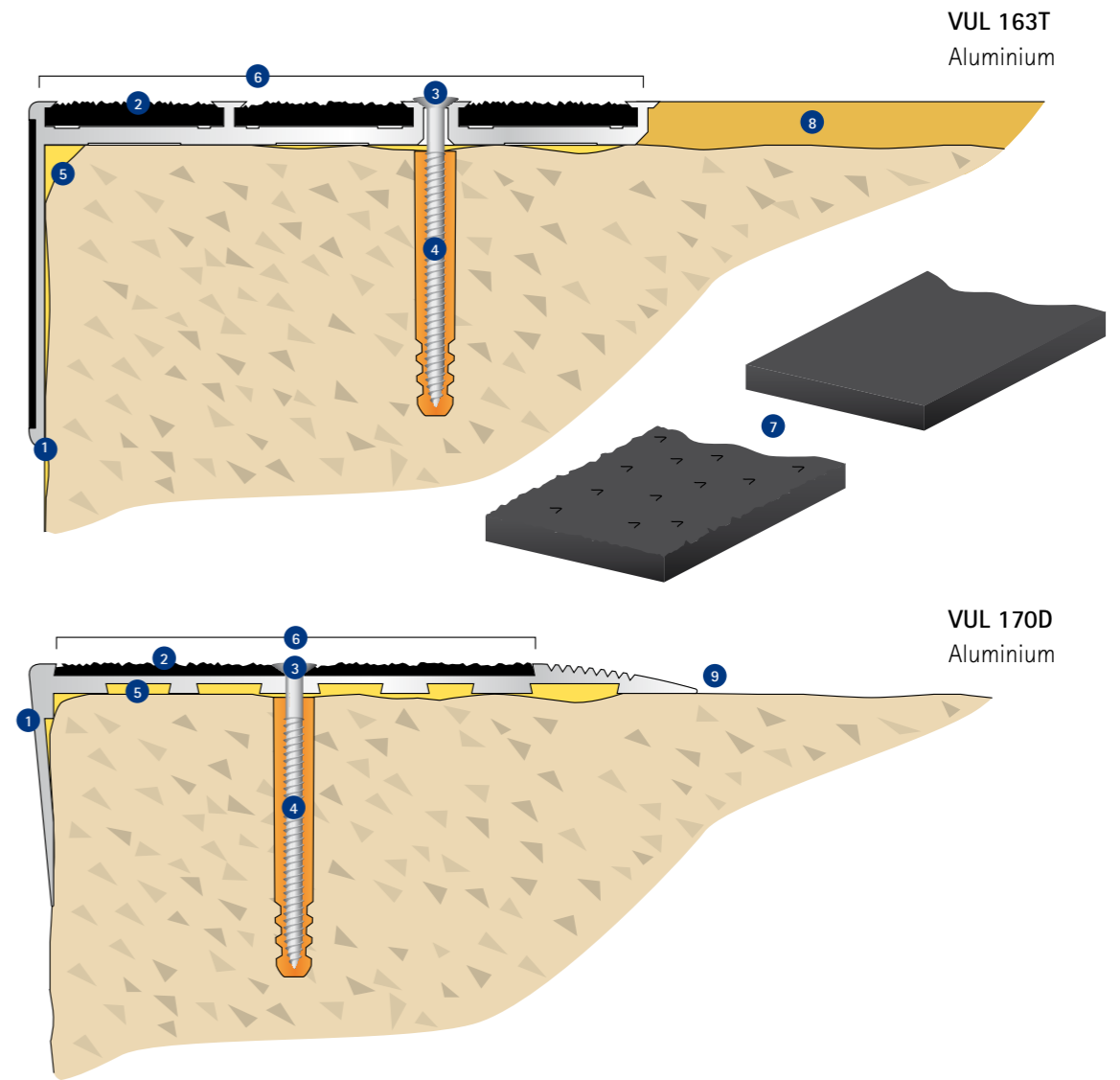
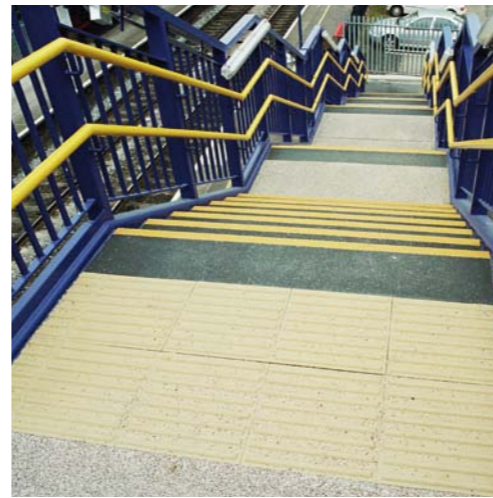


Vul 430e

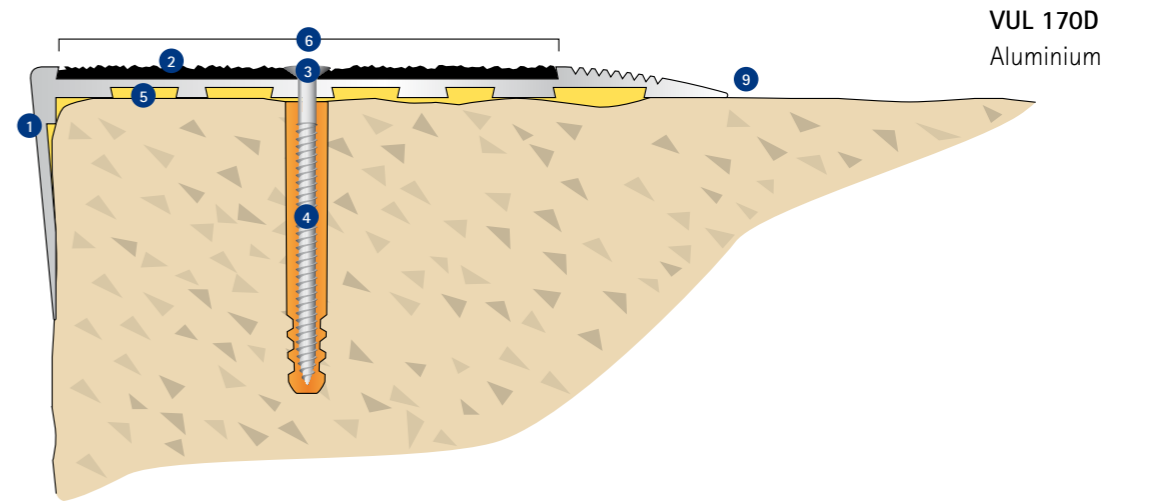
- 1 316 marine grade extruded stainless steel
- 2 High visibility and grip carborundum inserts; through pigmentation and colour fast
- 3 Pre-drilled – ready for on-site fixing
- 4 No. 14 x 75mm c/s stainless steel A2 grade staggered fixings can be anti-tamper and coloured if required
- 5 Bluline polyurethane adhesive sealant – salt-spray tested
- 6 Clear 55mm DDA vision strips – stringer to stringer
- 7 Wide choice of coloured inserts for background contrast. Black, yellow and light grey standard
- 8 Extra depth on the tread surface may be added to create a greater grip zone, up to 500mm
- 9 Pressure wash clean



Vul 132c



VUL 163T
Aluminium



VUL 170D
Aluminium

- 1 Extruded high tensile aluminium profile – other profiles available
- 2 High visibility contrasting inserts
- 3 Pre-drilled – ready for on-site fixing
- 4 No. 10 x 50mm countersunk stainless steel fixing. Anti-tamper
- 5 Bluline polyurethane adhesive sealant to repair small dents and main edge wear
- 6 90mm insert for colour contrast, visibility and foot purchase
- 7 Choice of inserts – TRAVERSE range of non-slip stair insert products or VULCAGRIP grip strips with carborundum inserts
- 8 Backfill flowcoat VULCAN CRETEX RAPID SET filler and smooth flush finish to back of new edging
- 9 Flush finish to taper edge. Non trip

