

section 1

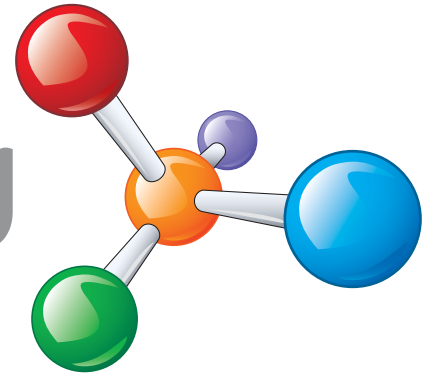


stair edgings & complementary trims

Information to ensure the correct selection of stair edging profiles and appropriate inserts along with details of colour availability and complementary trims.

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peace of mind



5 reasons to specify gradus stair edgings

● the law

we understand it so you can be sure that all our products comply with the latest guidelines, building regulations and research

● guarantee

40 years in business –
quality, performance and service guaranteed

● flexibility

the most flexible accessories business with a level of service you can rely on time and time again

● performance

no. 1 for safety on stairs – there is no equal

● the future

new products and solutions to meet your changing needs



GRADUS
contract interior solutions



to specify a gradus stair edging is to provide peace of mind - there is no equal

● the law

Several areas of guidance and legislation now exist to assist with the selection of suitable stair edgings, to help building owners achieve an inclusive environment in line with the Disability Discrimination Act 1995 (DDA).

- The Building Regulations 2000 - Approved Document M (2004) (see page 168)
- BS8300:2001 (see page 169)
- BRE (see page 170)

Gradus has devoted significant resource to product development to ensure our products help meet these requirements. This is backed up by our guarantee statement (see page 167), and all our specification consultants are trained to offer advice and guidance in this area to help you make the right selection.

● guarantee

Gradus Accessories, through 40 years experience in the manufacture of stair edgings, is able to provide the specifier with several guarantees to ensure complete Peace of Mind.

- Manufacturing Warranty - a wide range of stair edgings carry a 10 year manufacturing warranty. Details can be found on the description page for each stair edging range
- Insert bond is for life and eliminates the risk of insert bond failure
- All Gradus stair edgings are designed to meet the latest building regulations (as above)

● flexibility

Commitment to service is behind everything that we do (see page 4 for further details). In addition we are also able to offer a design service to manufacture bespoke solutions to meet special requirements, or a request for a specific colour. See page 171 for details.

● performance

According to statistics produced by the Health & Safety Executive, slips, trips and falls account for more than half of all reported injuries to the general public. Over 100,000 injuries are reported on non-domestic stairs each year and the latest HSE figures show that 100 deaths result directly from falls and trips on stairs. Stair edgings significantly contribute to safety when selected correctly and can help towards achieving an inclusive environment in line with the latest guidance in ADM 2004. The following key factors need to be considered when selecting a stair edging:

slip resistance – the environment in which stair edgings are situated will determine the correct selection of insert material to ensure slip-resistance. Gradus offers 4 types of insert (see page 11).

fixing – a secure fixing is essential. All stair edgings should be installed in line with the installation guidance on page 164.

environment – the type of building and volume of traffic will determine the correct selection of stair edging. Guidance can be found on page 56.

In addition Gradus specification consultants are pleased to offer advice tailored to a particular project and application.

health and safety – at the forefront of all Gradus product design. The most recent addition is the **XT range**, featuring an enhanced level of slip resistance. Details can be found on pages 14 to 17.

● the future

We are constantly adding to, and evolving our product range to ensure we offer you the most up-to-date solutions. This brochure contains details of the XT range, a new edge in safety on stairs, and **Xtra-Grip**, a new high performance insert offering increased slip resistance. To ensure you are kept up to date with all developments from Gradus please ask to be added to our database by contacting Customer Support.



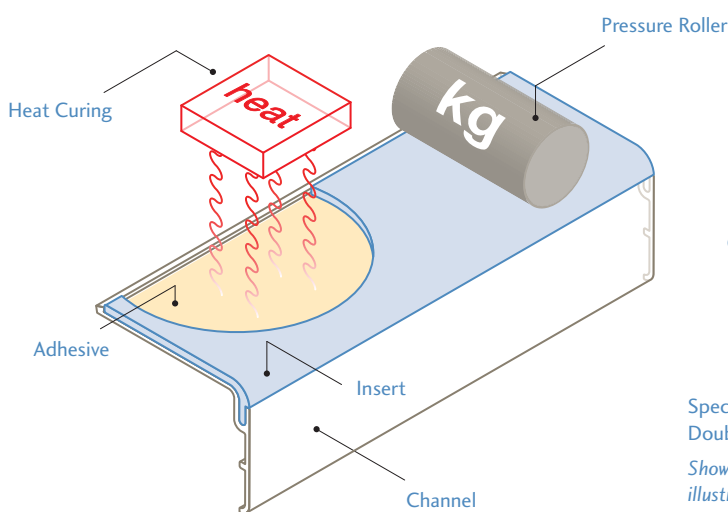
major advancements in safety & performance

gradus fusion - bond strength for life

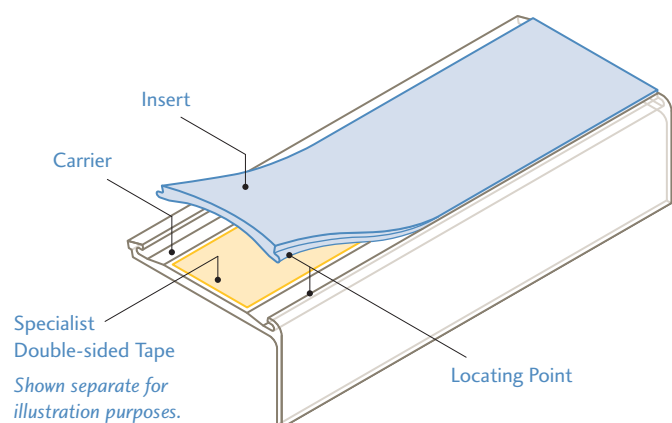
Gradus Fusion represents the bond between the insert and the channel. This is at the heart of delivering peace of mind to the specifier and building owner that they have selected a product that will perform throughout its life. Gradus Fusion is represented by two distinct technologies; Adhesive (XT and traditional stair edgings) and a mechanical lock (elite stair edgings).

Gradus fusion is a bond for life and this is underwritten by the Gradus manufacturing warranty (see page 5 for details).

XT and traditional stair edgings



elite stair edgings



adhesive technology

- A specialist adhesive developed to provide a bond that securely locks and fuses the insert in place and is resistant to shrinkage
- Extensively tested by SATRA (Shoe & Associated Trades Research Association) to simulate accelerated wear

mechanical lock

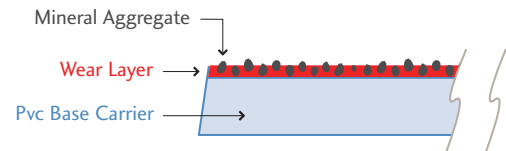
- A combination of specialist double-sided tape and the added reassurance of a mechanical fix through the use of locating points

types of insert - critical choice

- An insert provides a surface that creates friction between the sole of the shoe and step edge, hence providing slip-resistance
- An insert provides a colour contrast to ensure the step edge is clearly visible - see page 13 for colour choice
- All Gradus inserts are designed and tested to ensure optimum performance throughout the life of the product
- A choice of 4 insert types are available - see below

xtra-grip insert - new

- Pvc incorporating mineral aggregate and a wear layer. Suitable for very heavy commercial use (see figure 1)
- Offers increased surface roughness to reduce the risk of slip
- Suited to areas where a risk exists that the stair edging may become wet
- Achieves a low risk of slip in both dry and wet conditions (see figure 1)



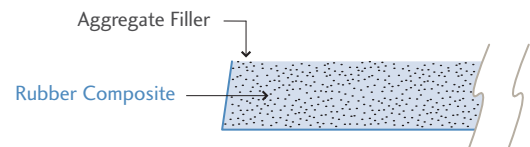
interior insert

- Pvc with mineral inclusion to provide surface roughness
- Suitable for use in internal dry conditions
- Available in a choice of 2 finishes: Standard and Grained
Elite insert available in Standard finish



exterior insert

- Rubber composite with the addition of aggregate fillers
- Bonded with epoxy adhesive and suitable for exterior use
- Achieves a low risk of slip in both dry and wet conditions (see figure 1)
- Suitable for very heavy commercial use (see figure 1)



testing

- All inserts are tested for: Slip-resistance, surface roughness, chemical and bacterial/fungal resistance
- Wear test independently carried out by SATRA using the Taber Abrader Method and classified in accordance with the results shown in the figure 1
- Slip resistance tests have been independently undertaken by the Health & Safety Laboratory using the pendulum test (see figure 2)

figure 2.

Pendulum Test Value (PTV)	Slip Potential
0 - 24	High Slip Potential
25 - 35	Moderate Slip Potential
36+	Low Slip Potential

figure 1.


	xtra-grip - new	interior	exterior
Composition	Pvc with Mineral Inclusion and Pvc Wear Layer	Pvc with Natural Mineral Fillers	Rubber Composite with Aggregate Fillers
Environment	Interior Dry or Wet Conditions	Interior Dry Conditions	External Dry or Wet Conditions
Potential for Slip	Dry Conditions Low (PTV Av. 70) Wet Conditions Low (PTV Av. 64)	Dry Conditions Low (PTV Av. 68)	Dry Conditions Low (PTV Av. 71) Wet Conditions Low (PTV Av. 53)
Compatibility	Aluminium, Bronze, PVC-u XT & Traditional Stair Edgings	Aluminium, Bronze, PVC-u XT, Traditional & Elite Stair Edgings	Aluminium, Bronze Traditional Stair Edgings
Wear Classification*	All Gradus inserts achieve wear classifications of: Group T - Class 34 - Commercial Very Heavy Group T - Class 43 - Light Industrial Heavy		
* Exterior and interior (standard, grained, elite) tested to BS EN 660-2:1999 and assessed against the requirements of BS EN 649:1997 Xtra-Grip tested to BS EN 13845:2005 - 50,000 cycles			

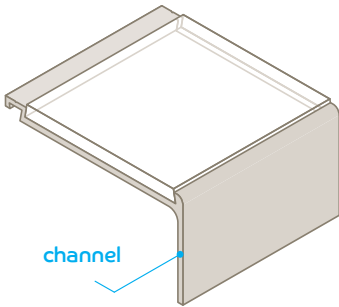
Additional insert materials are available in Allite heavy duty stair edgings (see pages 76 to 79) and as Stairtile slip resistant flooring (see pages 74 to 75).

colour availability - stair edgings and complementary trims

The range of stair edging colours from Gradus provides a comprehensive solution allowing specifiers and users to achieve colour contrast to the surrounding floorcovering in line with recommendations in The Building Regulations 2000 - Approved Document M - "Access to and use of buildings" and BS8300:2001.

The colours have been developed to provide a wide choice of colour contrast with matching colours for both insert and channel. All colours have been measured for light reflectance/colour contrast (LRV) and have been colour referenced on the NCS colour system (see below for details).

 For full LRV information on Gradus products contact Gradus Customer Support.



channel colours

BS8300:2001 states that stair edgings should contrast in colour and luminance with the remainder of the tread. Gradus stair edging channels are available in a variety of finishes and colours and can be combined with a wide range of inserts to achieve safe and attractive edges to steps (see opposite page).

PVC-u hardnose - satin finish

Elite and Traditional* channels. Interior use.

Black 7502 - B	Ink 8010 - R70B	Midnight 6030 - R80B	Burgundy 6030 - R10B	Evergreen 7020 - B70G	Brown 6010 - Y70R
Nutmeg 6020 - Y80R	Bluebell 5030 - R90B	Granite 6502 - R	Storm 5020 - R70B	Dove 5000 - N	Sage 4010 - B70G
Alpine 3020 - R90B	Lavender 3010 - R40B	Linen 3010 - Y30R	Veranda 3010 - G70Y	Glacier 2502 - B	Canvas 2005 - Y30R
Buttercup 1070 - Y	Snowdrift 0500 - N				

* DDA & RNC Hardnose channels are available in Black, Bluebell, Brown, Buttercup, Canvas, Dove, Evergreen, Glacier, Granite, Ink and Snowdrift. RNRC Hardnose channels are available in Black, Buttercup, Glacier, Granite, Ink

PVC-u hardnose - metallic finish

Elite channels. Interior use.

Burnt Almond 7010 - Y50R	Zinc 6005 - R80B
Doublon 4020 - Y	Silver 2005 - R80B

flexible pvc

One-piece slip resistant stair edging. Interior use.

Black 7502 - B	Brown 6010 - Y70R	Granite 6502 - R
Dove 5000 - N	Snowdrift 0500 - N	

metal finish

Elite and Traditional channels. Interior and exterior use.

Aluminium	Bronze	Chrome**
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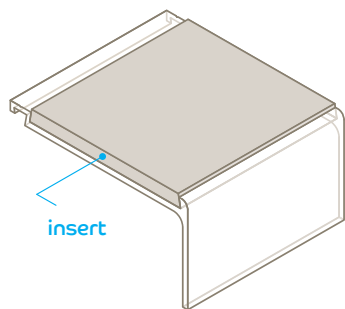
Interior use.

** Elite and Traditional channels.

NCS colour references



Gradus is a member of NCS (Natural Colour System) and utilises the NCS reference codes shown above each colour. NCS is a user friendly colour language and is the only colour system that describes colour exactly as we see it. NCS is used by professionals as a tool for precise colour communication, selection and specification. For further information visit the NCS website - www.ncscolour.co.uk
©Property of and used under licence from the Scandinavian Colour Institute AB, SCI-Sweden se, Stockholm 2004. 'See www.ncscolour.co.uk for NCS-standard samples'.



insert colours

All Gradus inserts provide a low risk of slip when used in internal dry conditions (see page 11 for details). Where risk of contamination is likely, a choice of Xtra-Grip or Exterior insert is available. **An appropriate cleaning and maintenance programme is required to ensure slip resistant qualities are maintained** (see page 165 for details).

When selecting inserts to be used with Hardnose channels the insert colour should match the channel colour in order to meet the guidelines in Approved Document M. Where colour names differ the matching Hardnose colour is indicated.

xtra-grip insert - new

The properties of Xtra-Grip insert make it ideal for heavy traffic internal areas, where surface contamination is likely to occur. For XT (available Autumn 2007) and Traditional (available Spring 2008) channels. Interior use in areas subject to wet conditions.

Carbon 8502 - B Hardnose - Black	Deepsea 8010 - R70B Hardnose - Ink	Truffle 8010 - Y50R Hardnose - Brown	Blueprint 6020 - R90B Hardnose - Bluebell	Rock 7005 - R50B Hardnose - Granite	
Hunter 7020 - B70G Hardnose - Evergreen	Pebble 4500 - N Hardnose - Dove	Vapour 2502 - B Hardnose - Glacier	Oat 2005 - Y30R Hardnose - Canvas	Zest 1070 - Y Hardnose - Buttercup	Iceberg 0500 - N Hardnose - Snowdrift

interior insert - standard finish

For XT*, Elite and Traditional channels. Interior use in dry conditions. * XT inserts are available in Buttercup, Canvas, Coffee, Evergreen, Glacier, Ink, Jet, Lead, Ocean, Snowdrift and Steel.

Jet 8502 - B Hardnose - Black	Ink 8010 - R70B Hardnose - Ink	Midnight 6030 - R80B Hardnose - Bluebell	Burgundy 6030 - R10B Hardnose - Brown	Evergreen 7020 - B70G Hardnose - Evergreen	Coffee 8010 - Y50R Hardnose - Brown
Nutmeg 6020 - Y80R Hardnose - Brown	Ocean 6020 - R90B Hardnose - Bluebell	Lead 7005 - R50B Hardnose - Granite	Storm 5020 - R70B Hardnose - Bluebell	Steel 4500 - N Hardnose - Dove	Sage 4010 - B70G Hardnose - Sage
Alpine 3020 - R90B Hardnose - Alpine	Lavender 3010 - R40B Hardnose - Lavender	Linen 3010 - Y30R Hardnose - Linen	Veranda 3010 - G70Y Hardnose - Veranda	Glacier 2502 - B Hardnose - Glacier	Canvas 2005 - Y30R Hardnose - Canvas
Buttercup 1070 - Y Hardnose - Buttercup	Snowdrift 0500 - N Hardnose - Snowdrift	Cloud 4010 - R70B Hardnose - Cloud	Poppy 2070 - R Hardnose - Poppy	Photoluminescent Hardnose - Photoluminescent	

Photoluminescent insert is available in traditional channels with a 50mm insert.

interior insert - grained finish

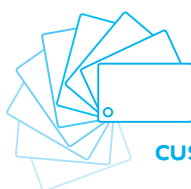
For Traditional channels. Interior use in dry conditions.

Black 7502 - B Hardnose - Black	Brown 6010 - Y70R Hardnose - Brown	Bluebell 5030 - R90B Hardnose - Bluebell	Granite 6502 - R Hardnose - Granite	Dove 5000 - N Hardnose - Dove
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exterior insert

For Traditional channels. Exterior use.

Nightsky Hardnose - Nightsky	Lignite Hardnose - Lignite
Sunrise Hardnose - Sunrise	Nebula Hardnose - Nebula



for samples contact customer support on **01625 428922**

section 1



aluminium - XT range

the new edge in safety for stairs

EHufton & Crow/View.

description

The XT range offers the ultimate solution in reducing slips, trips and falls on stairs and has been developed in line with the latest recommendations from BRE (see page 170) and the guidance contained within Approved Document M (ADM) of The Building Regulations.

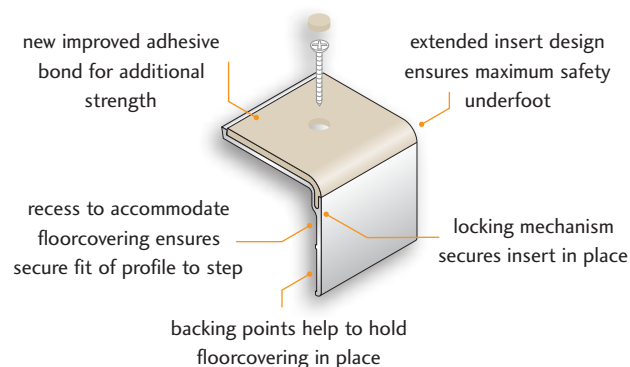
The Gradus XT range comprises aluminium channels with a choice of slip resistant inserts that extend around the leading edge of the stair edging to ensure that foot contact is always made with the slip-resistant element of the stair edging.

shape of step?



XT range

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



profile availability

Gauge of profiles suitable for most floorcoverings.

See page 56 for recommended stair edging to suit floorcovering.

- The XT range also incorporates 55mm treads and both 40mm and 55mm risers to meet the guidance in ADM to help building owners achieve an inclusive environment in line with the Disability Discrimination Act (DDA)
- Profile designs available to accommodate most stair shapes
- Choice of profile to suit traffic levels e.g. single or double channel
- Complementary edge trims (see page 17)

finishes / environment

Aluminium channels suitable for interior use.

- Mill finish aluminium. Can also be supplied anodised
- When specifying a double channel stair edging both inserts should be the same colour and should be of a contrasting colour to the surrounding floor finish
- Choice of insert for interior use: **Xtra-Grip**, available in 11 colours, for interior areas subject to wet conditions e.g. stairways close to entrances; Interior (Standard) available in 11 colours

installation

Installation guidelines can be found on page 164.

- Fusion bonded insert supplied with plugs

services

- Technical Services
- Samples
- Design Service
- Profiles can be fabricated
- Measuring and templating
- 10 year warranty

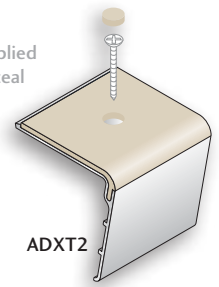
Patent applied for - Application no 0526373.6
Registered Community Design Application No 000465950

XT range

For guidance on the correct selection of stair edgings see pages 8 to 11.

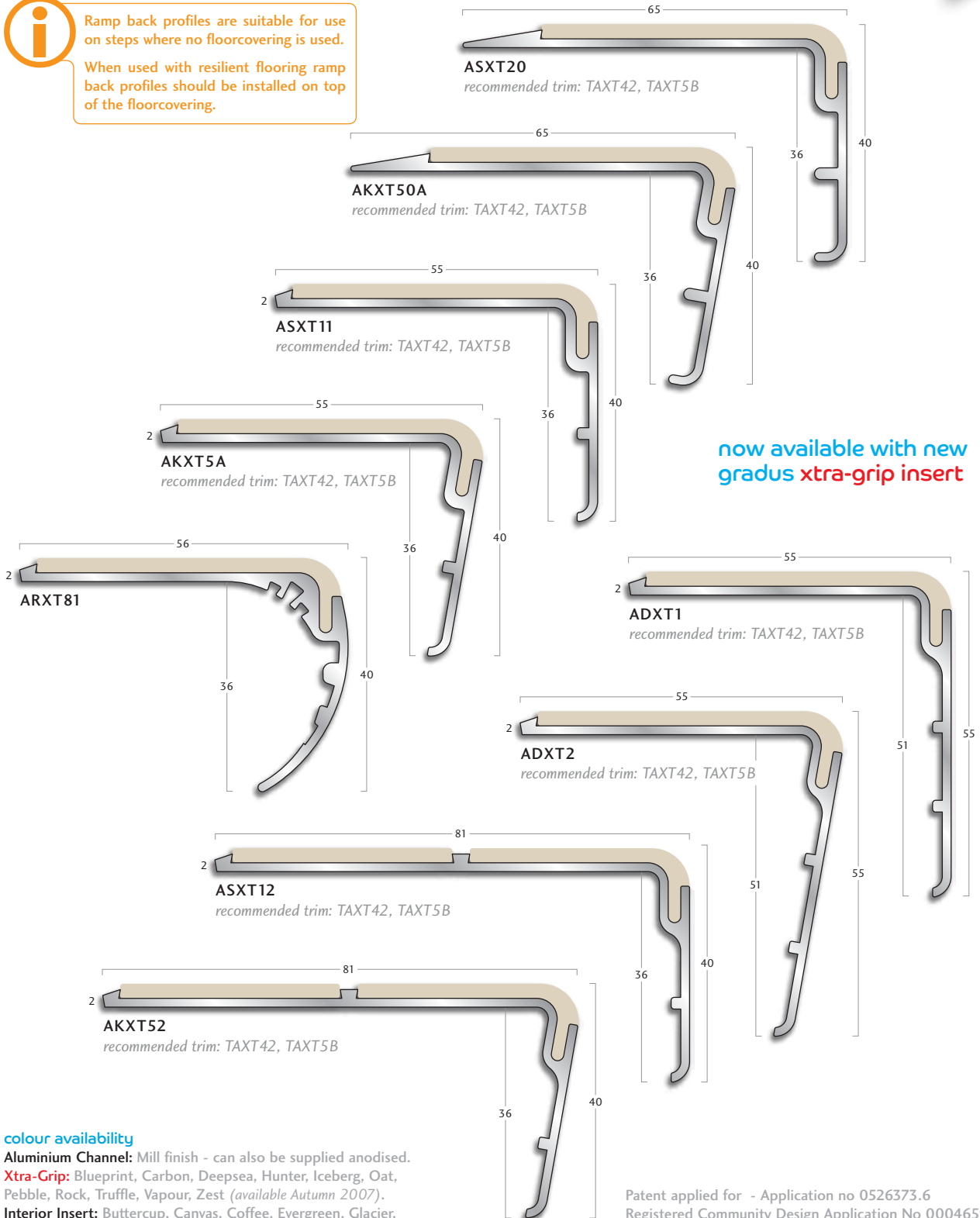
Channel	Mill finish aluminium
Insert	Xtra-Grip or Interior
Gauge	Typically used with resilient flooring
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



ADXT2

i Ramp back profiles are suitable for use on steps where no floorcovering is used. When used with resilient flooring ramp back profiles should be installed on top of the floorcovering.



colour availability

Aluminium Channel: Mill finish - can also be supplied anodised.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Autumn 2007).

Interior Insert: Buttercup, Canvas, Coffee, Evergreen, Glacier, Ink, Jet, Lead, Ocean, Snowdrift, Steel.

For a quick colour reference guide use the back cover foldout. For full details on Colour Availability see pages 12 to 13.

Patent applied for - Application no 0526373.6
Registered Community Design Application No 000465950

trims

For recommended trims see individual profiles. For further information on associated trims see pages 17 and 48 to 53.

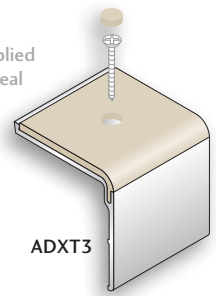
aluminium - XT range

XT range

For guidance on the correct selection of stair edgings see pages 8 to 11.

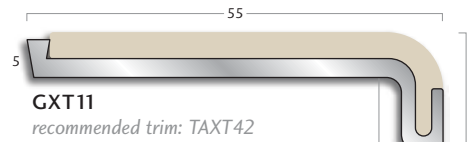
Channel	Mill finish aluminium
Insert	Xtra-Grip or Interior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing

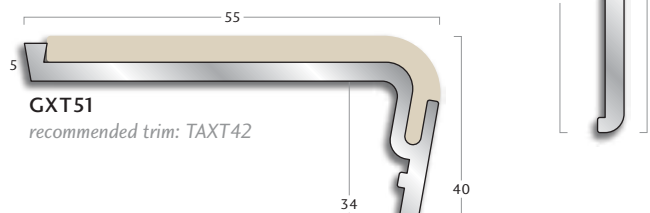


ADXT3

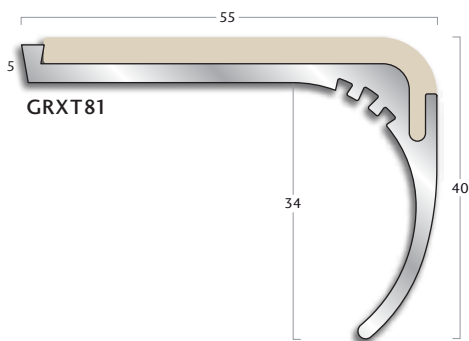
now available with new gradus xtra-grip insert



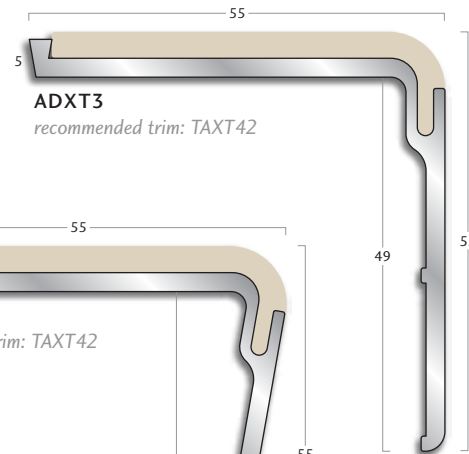
GXT11
recommended trim: TAXT42



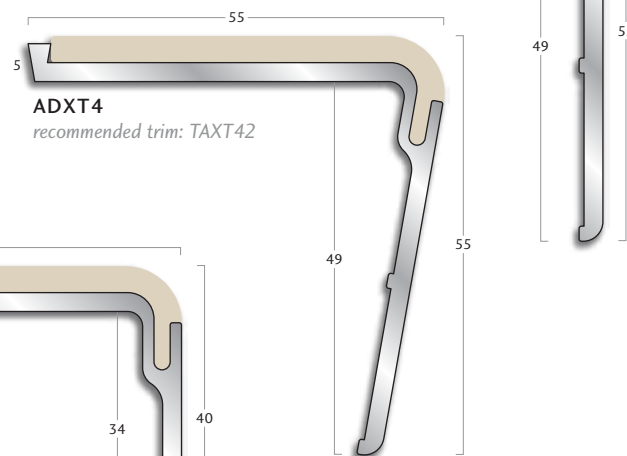
GXT51
recommended trim: TAXT42



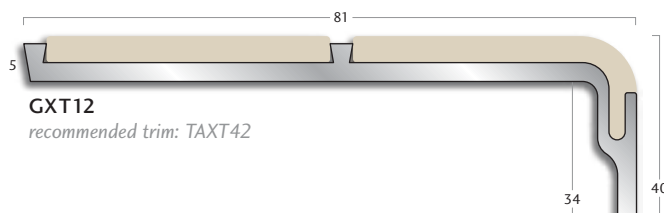
GRXT81



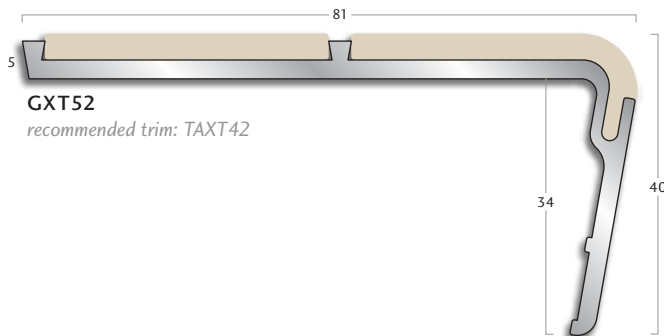
ADXT3
recommended trim: TAXT42



ADXT4
recommended trim: TAXT42



GXT12
recommended trim: TAXT42



GXT52
recommended trim: TAXT42



Design Service
see page 171.

colour availability

Aluminium Channel: Mill finish - can also be supplied anodised.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Autumn 2007).

Interior Insert: Buttercup, Canvas, Coffee, Evergreen, Glacier, Ink, Jet, Lead, Ocean, Snowdrift, Steel.

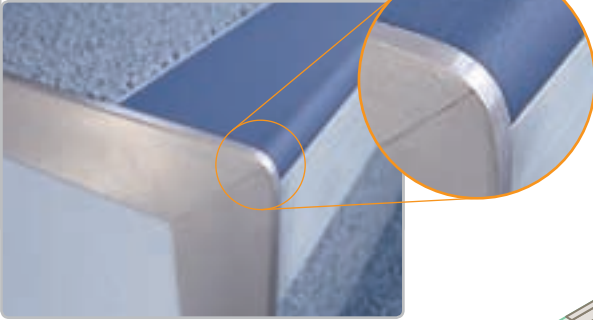
For a quick colour reference guide use the back cover foldout.
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trims

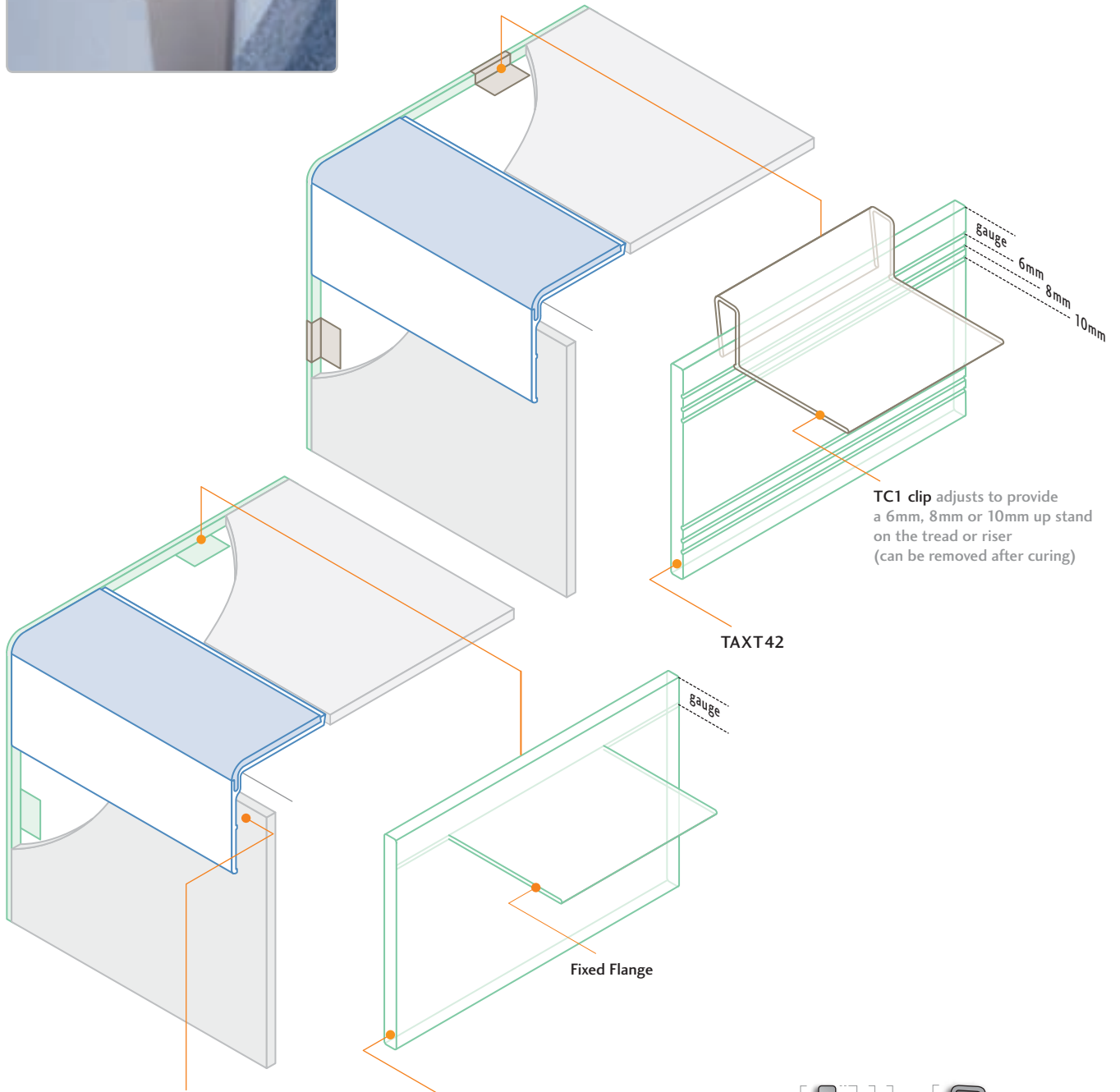
For recommended trims see individual profiles. For further information on associated trims see pages 17 and 48 to 53.

TAXT42 with contoured edge to provide a flush, neat finish to the stair edging profile



Side trims and welded corners are designed to form a neat and attractive edge around the open end of a step by concealing the edge of the floorcovering and stair edging.

Gradus side trims TA42 and TA5B can be ordered in straight lengths for on-site fabrication or can be supplied as pre-formed welded corners TAXT42 and TAXT5B. When ordered as TAXT42/TAXT5B the apex of the welded corner is contoured to a 10mm radius to match the curved edge design of the XT stair edging profiles, providing a flush, neat finish.



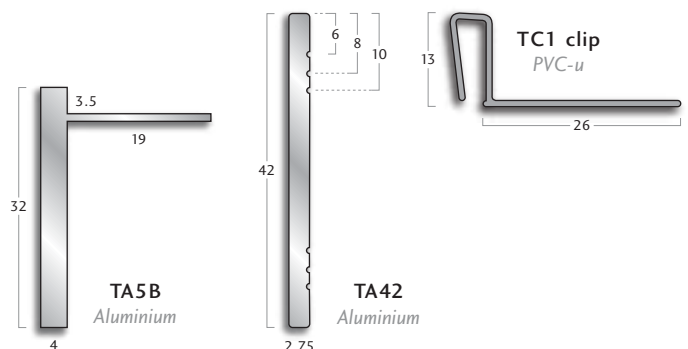
TC1 clip adjusts to provide a 6mm, 8mm or 10mm up stand on the tread or riser (can be removed after curing)

recess to accommodate floorcovering ensures secure fit of profile to step

TAXT5B to suit up to 3.5mm resilient floorcoverings

welded corners

Section	Gauge	78° - 90° LH or RH	83° & 90° Universal	Fixing	Site Join
TAXT42	6-8-10mm	✓	✓	TC1 Clips	butt
TAXT5B	3.5mm	✓	✓	Fixed Tab	butt





aluminium

the original stair edging

description

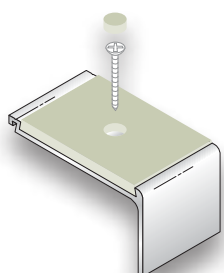
An extensive range of attractive and hardwearing stair edgings comprising aluminium channels with slip resistant inserts. Used in conjunction with floorcoverings from all major manufacturers. Suitable for all commercial and most industrial applications. Stair edgings help to achieve an inclusive environment in line with The Building Regulations 2000 - Approved Document M (May 2004) see pages 168 and 169.

shape of step?

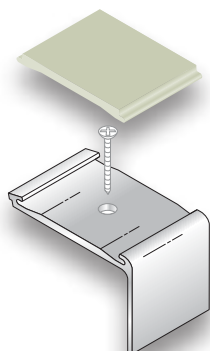


* Kinked Face can be used on square and some rake back steps.

which stair edging?



Traditional
Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



Elite
Concealed fixing eliminating the need for screw head cover plugs

profile availability

Gauge of profiles suitable for most floorcoverings. See page 56 for recommended stair edging to suit floorcovering.

- Profile designs available to accommodate most stair shapes
- Choice of profile to suit traffic levels e.g. single or double channel
- Complementary edge trims
- Choice of Traditional or Elite profiles. Selected profiles are also available in the new XT design (see pages 14 to 17)

finishes / environment

Aluminium channels suitable for interior and exterior use.

- Mill finish aluminium. Can be supplied polished, anodised or chromed
- When specifying a double channel stair edging both inserts should be the same colour and should be of a contrasting colour to the surrounding floor finish
- Choice of insert for interior use: **Xtra-Grip**, available in 11 colours, for interior areas subject to wet conditions (traditional channel only); Interior (Standard, Grained and Elite) available in up to 23 colours
- Exterior insert, available in 4 colours, for exterior areas subject to wet conditions (traditional channel only)

installation

Installation guidelines can be found on page 164.

- Elite: concealed fixing, inserts fitted on site
- Traditional: Fusion bonded insert supplied with plugs

services

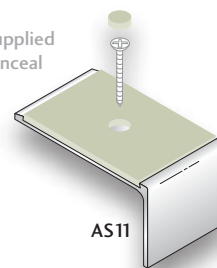
- Technical Services
- Samples
- Design Service
- Profiles can be fabricated
- Measuring and templating
- 10 year warranty

A range

For guidance on the correct selection of stair edgings see pages 8 to 11.

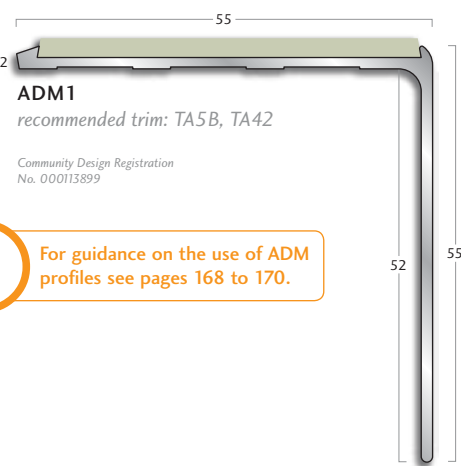
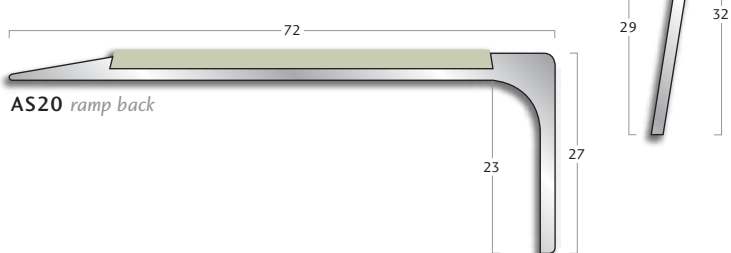
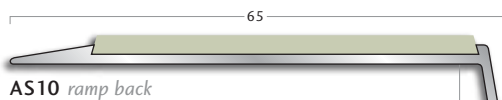
Channel	Mill finish aluminium
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with resilient flooring
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



section 1

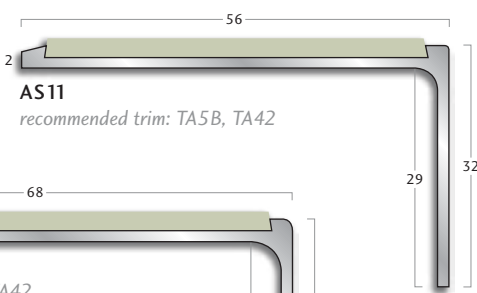
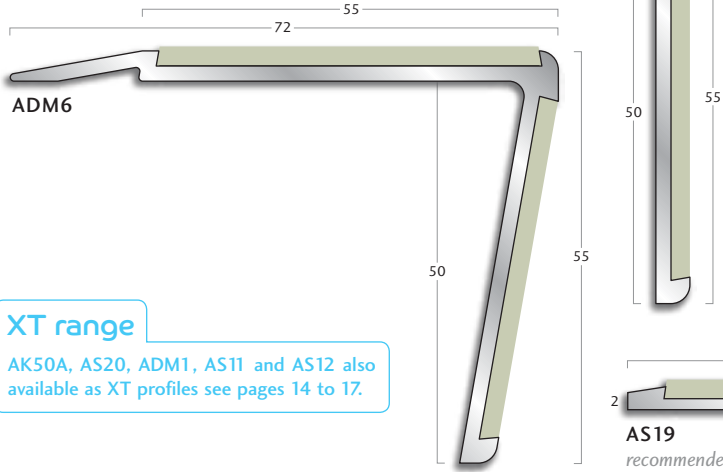
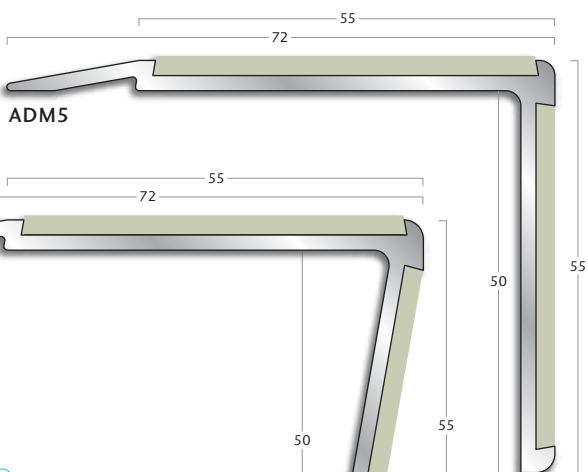
i Ramp back profiles are suitable for use on steps where no floorcovering is used. When used with resilient flooring ramp back profiles should be installed on top of the floorcovering.



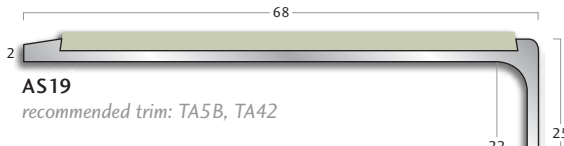
ADM1
recommended trim: TA5B, TA42

Community Design Registration No. 000113899

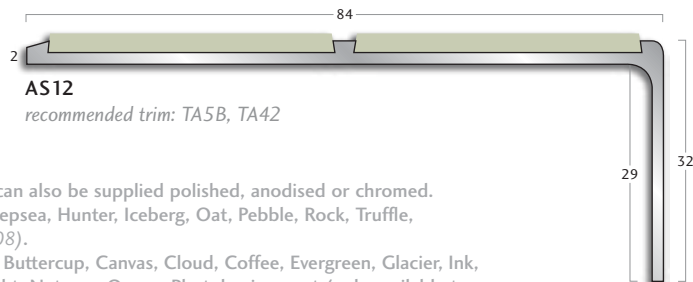
i For guidance on the use of ADM profiles see pages 168 to 170.



AS11
recommended trim: TA5B, TA42



AS19
recommended trim: TA5B, TA42



AS12
recommended trim: TA5B, TA42

XT range
AK50A, AS20, ADM1, AS11 and AS12 also available as XT profiles see pages 14 to 17.

colour availability
Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.
Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

Exterior Insert: Lignite, Nebula, Nightsky, Sunrise.

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims
For recommended trims see individual profiles.
For further information on associated trims see pages 48 to 53.

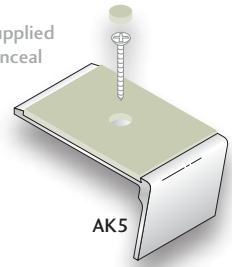
traditional aluminium - A range

A range

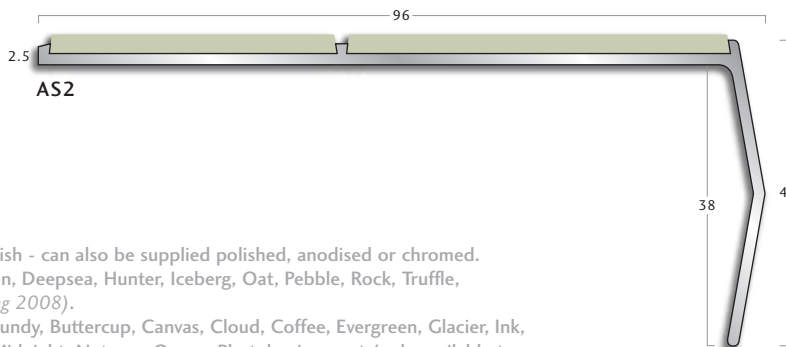
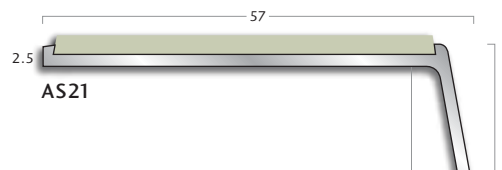
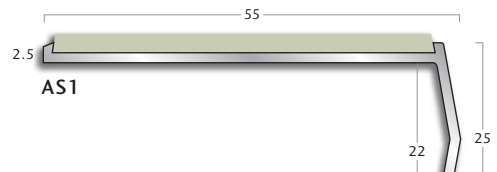
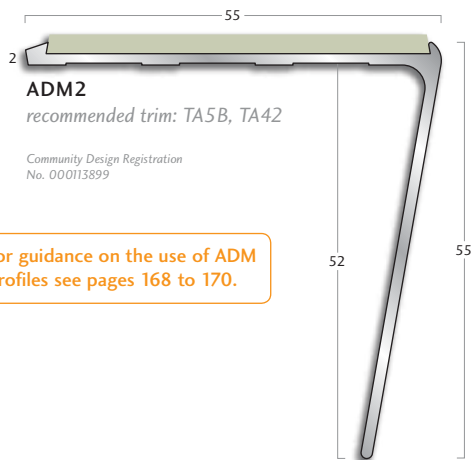
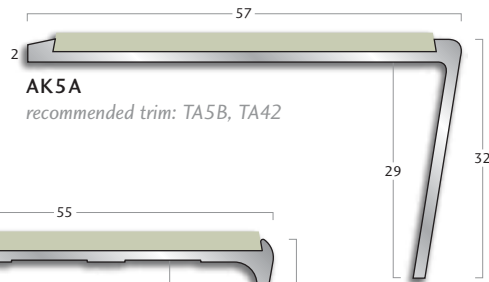
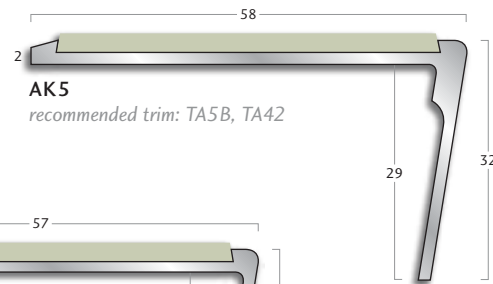
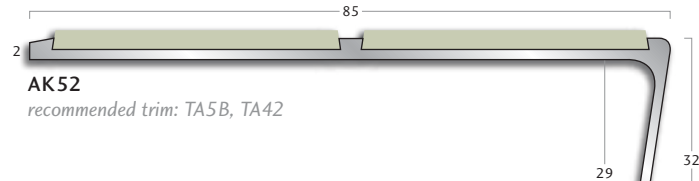
For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Mill finish aluminium
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with resilient flooring
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



AK5



i For guidance on the use of ADM profiles see pages 168 to 170.

colour availability

Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

Exterior Insert: Lignite, Nebula, Nightsky, Sunrise.

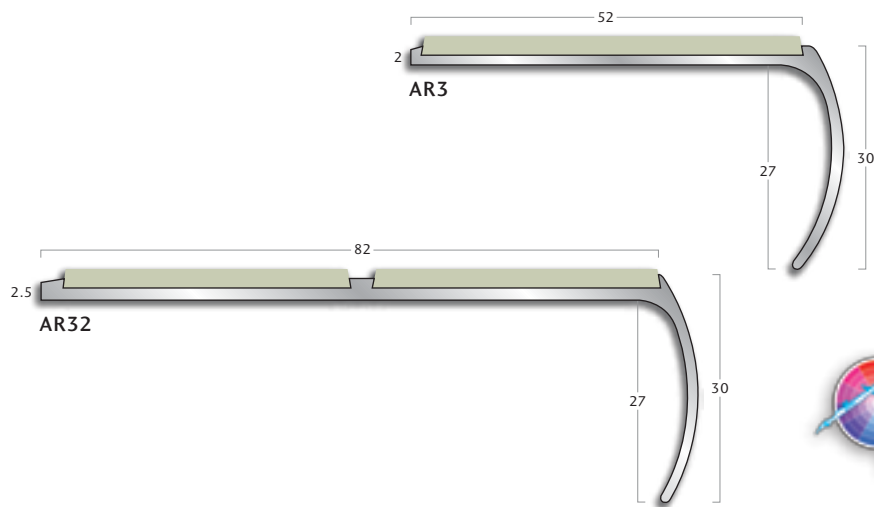
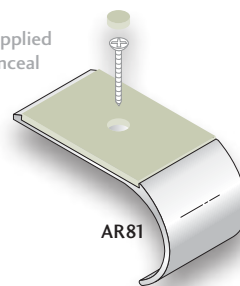
For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

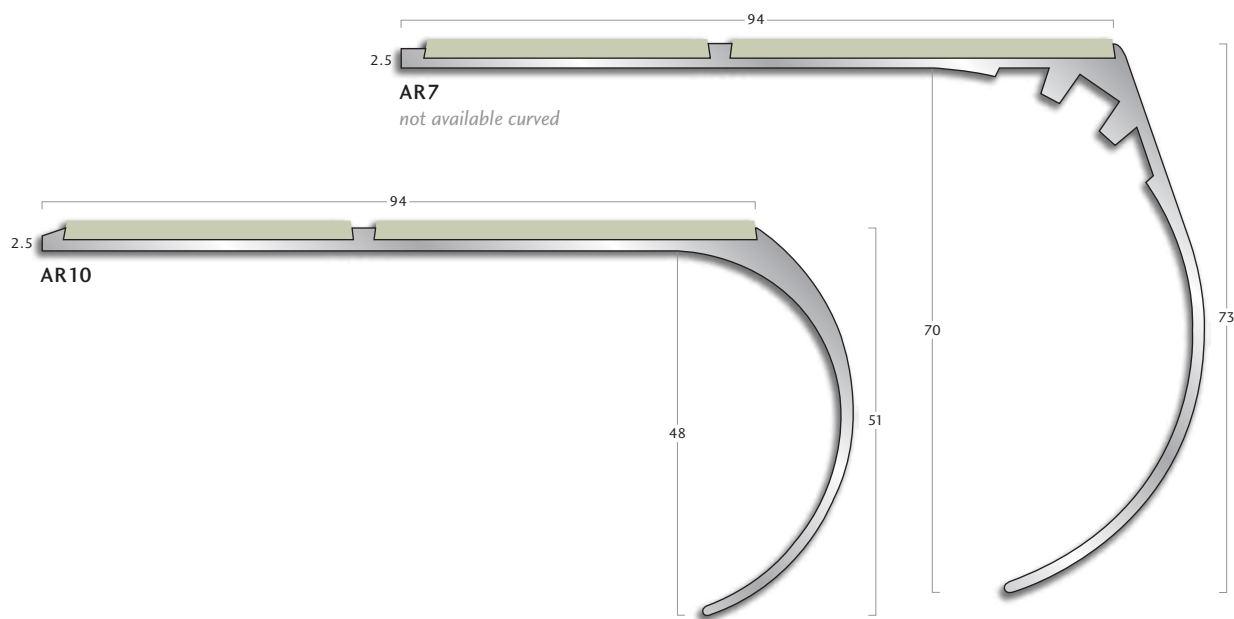
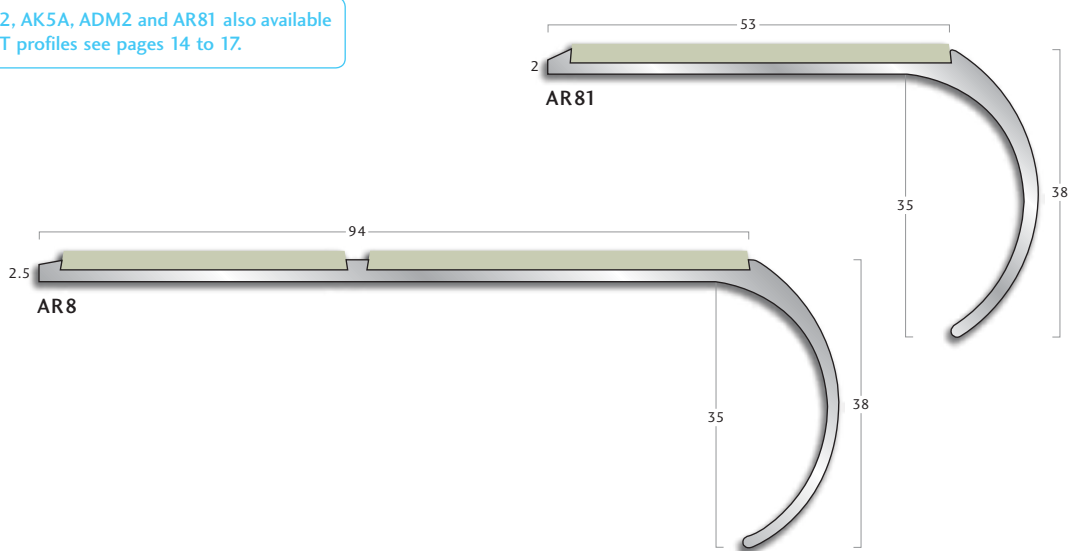
For further information on associated trims see pages 48 to 53.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



section 1

XT range
AK52, AK5A, ADM2 and AR81 also available as XT profiles see pages 14 to 17.



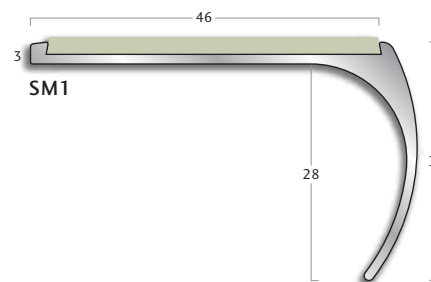
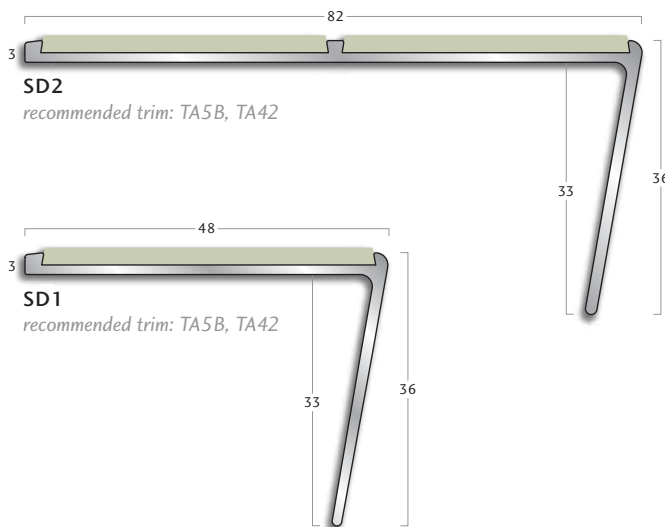
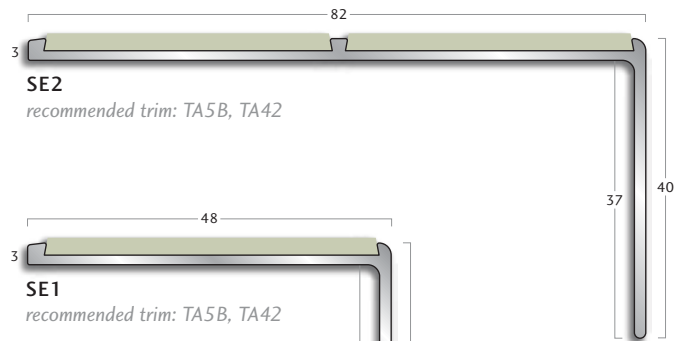
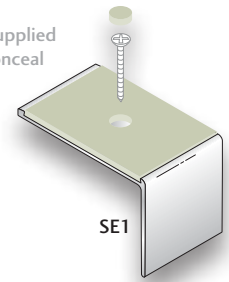
traditional aluminium - S range

S range

For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Mill finish aluminium
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with resilient flooring
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



colour availability

Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

Exterior Insert: Lignite, Nebula, Nightsky, Sunrise.

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

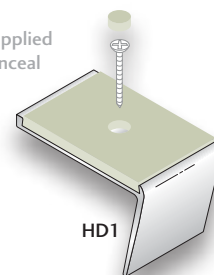
For further information on associated trims see pages 48 to 53.

H range

For guidance on the correct selection of stair edgings see pages 8 to 11.

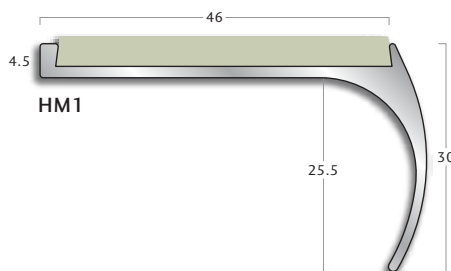
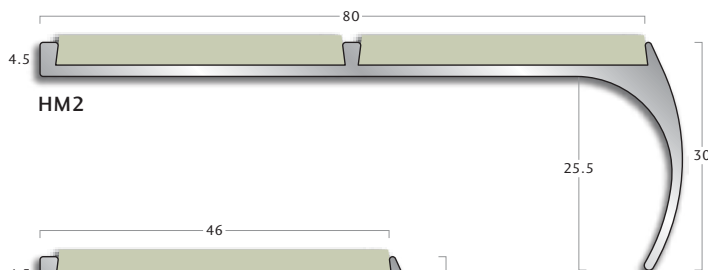
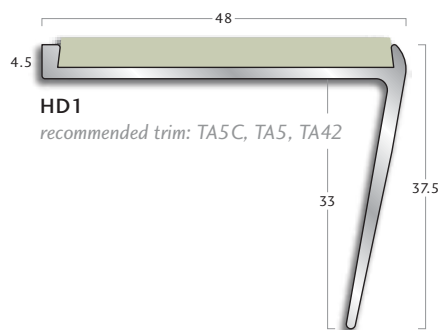
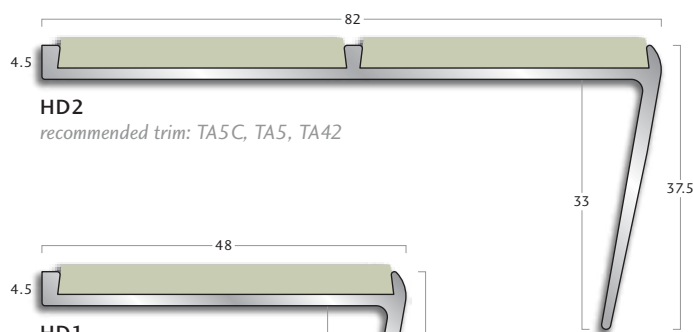
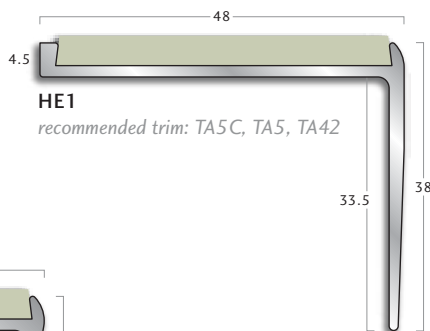
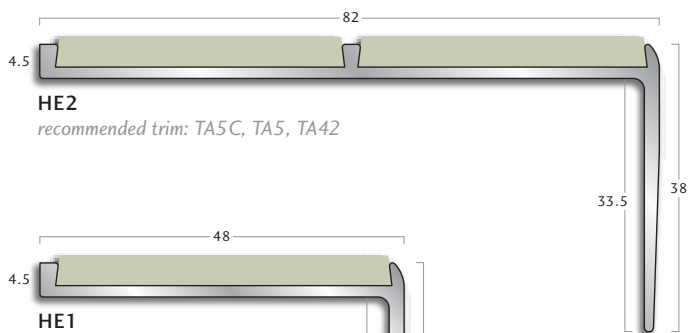
Channel	Mill finish aluminium
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



Design Service
see page 171.

section 1



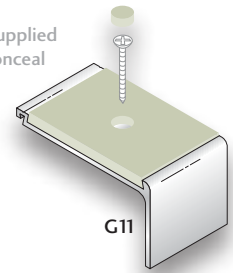
traditional aluminium - G range

G range

For guidance on the correct selection of stair edgings see pages 8 to 11.

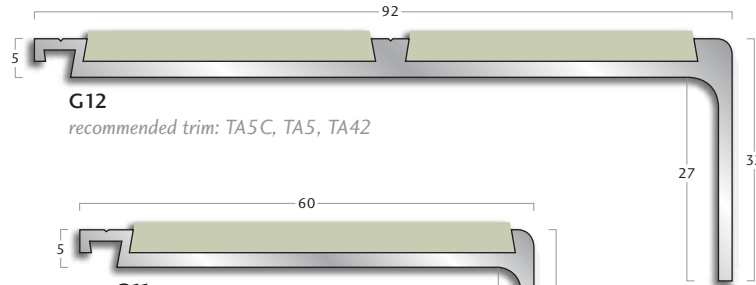
Channel	Mill finish aluminium
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing

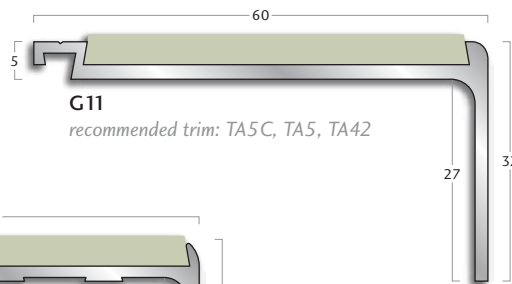


XT range

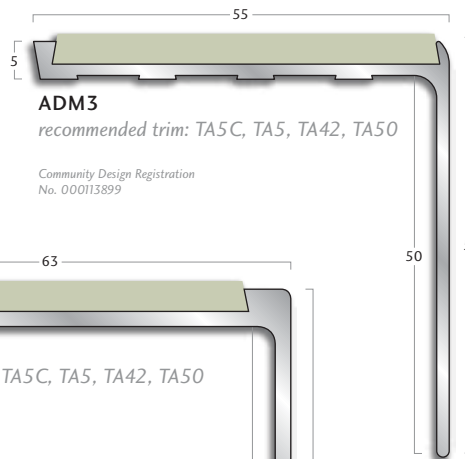
ADM3, ADM4, G11, G12, G51 and G52 also available as XT profiles see pages 14 to 17.



G12
recommended trim: TA5C, TA5, TA42



G11
recommended trim: TA5C, TA5, TA42



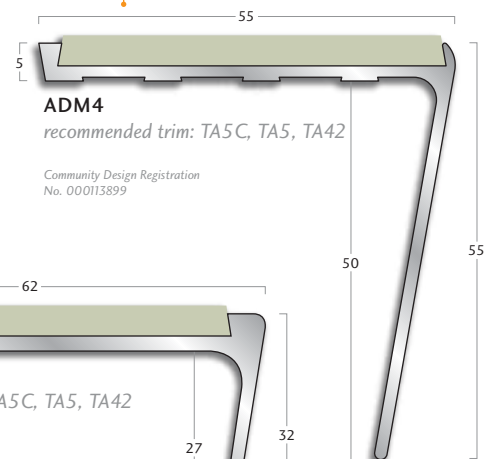
ADM3
recommended trim: TA5C, TA5, TA42, TA50

Community Design Registration
No. 000113899

i For guidance on the use of ADM profiles see pages 168 to 170.

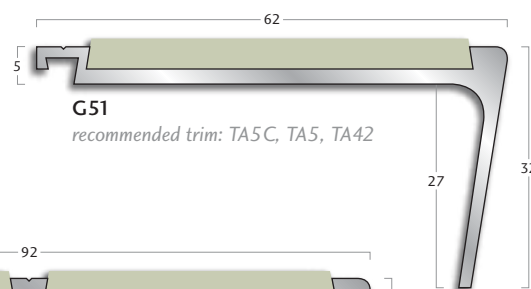


G41
recommended trim: TA5C, TA5, TA42, TA50

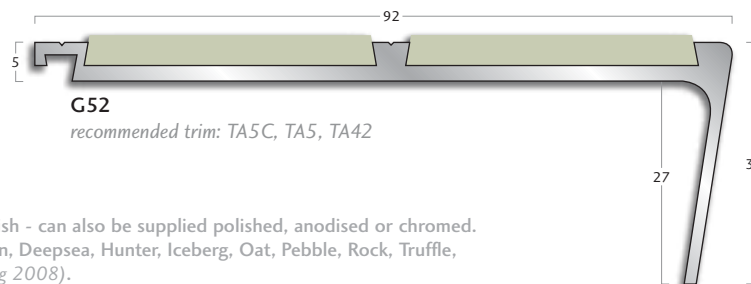


ADM4
recommended trim: TA5C, TA5, TA42

Community Design Registration
No. 000113899



G51
recommended trim: TA5C, TA5, TA42



G52
recommended trim: TA5C, TA5, TA42

colour availability

Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

Exterior Insert: Lignite, Nebula, Nightsky, Sunrise.

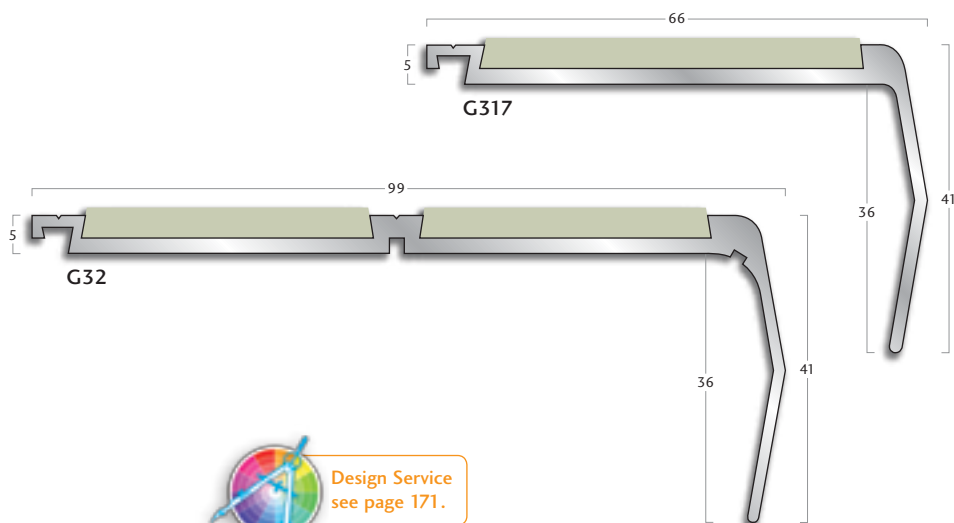
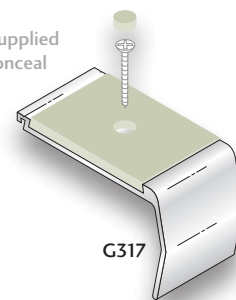
For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

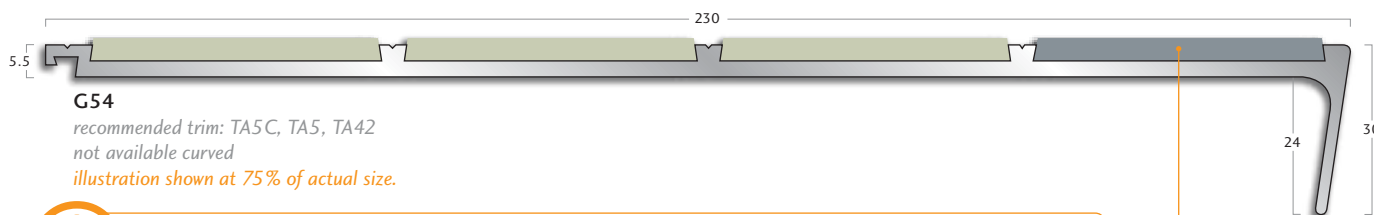
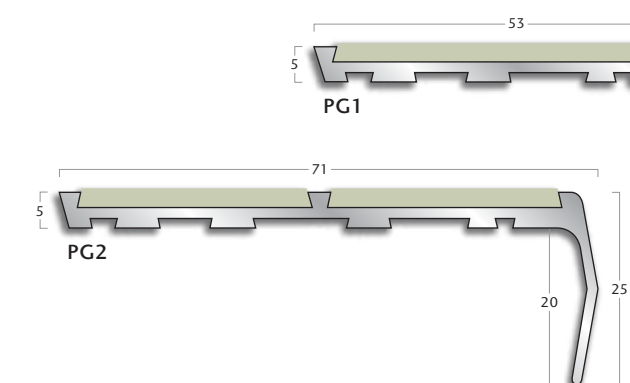
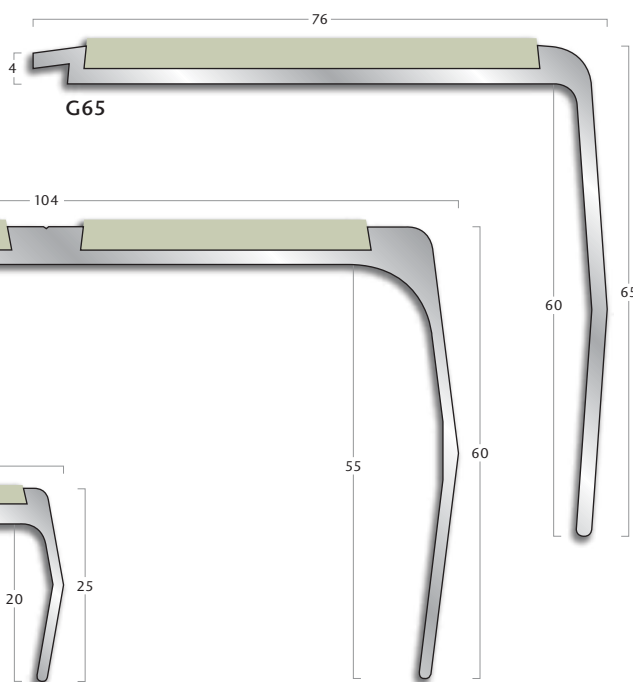
For recommended trims see individual profiles.

For further information on associated trims see pages 48 to 53.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



section 1



G54
recommended trim: TA5C, TA5, TA42
not available curved
illustration shown at 75% of actual size.



Front insert should always be in a contrasting colour to the remaining inserts to ensure definition of the step edge. The remaining inserts must always be of the same colour and ideally match the surrounding floorcovering.

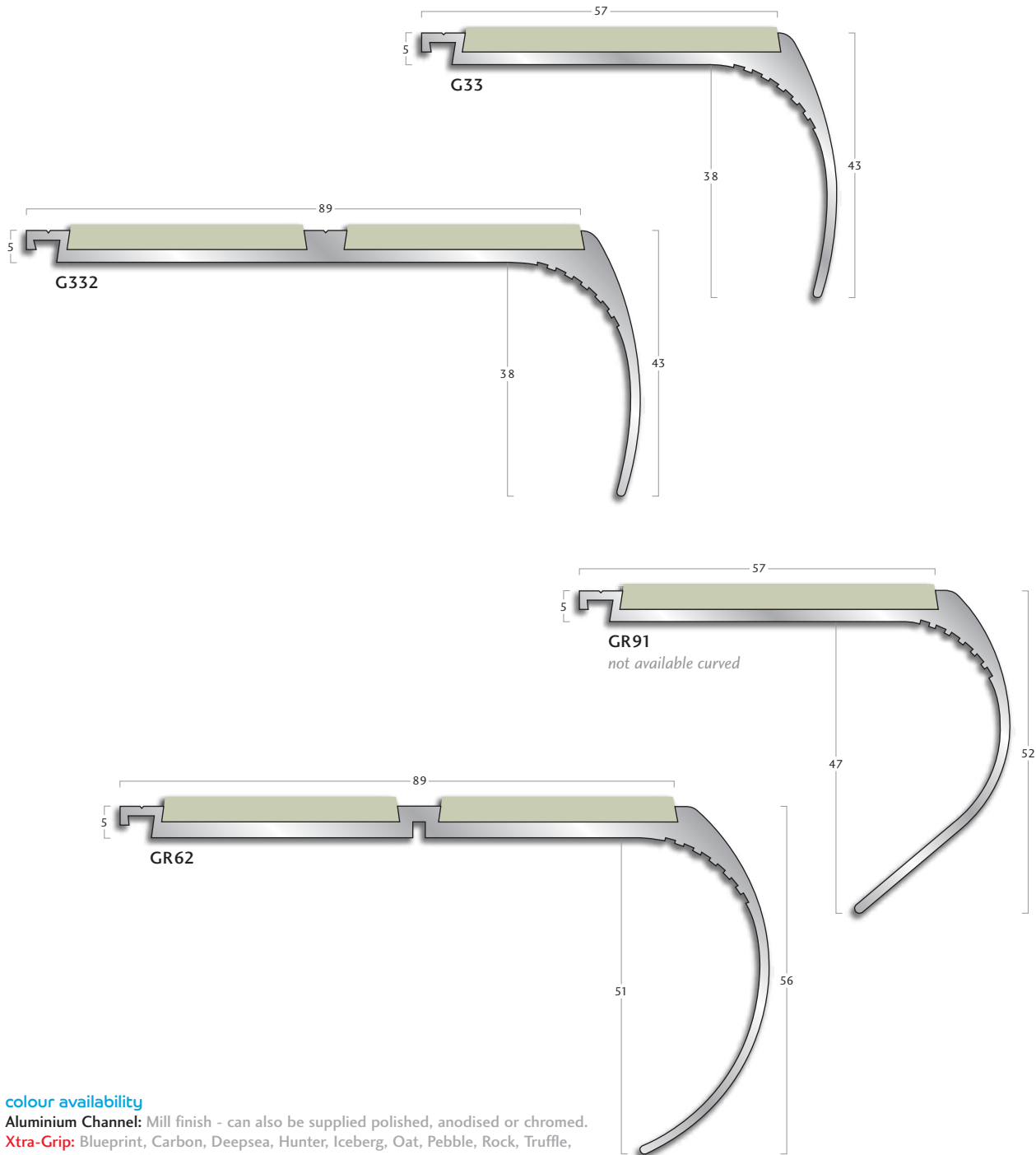
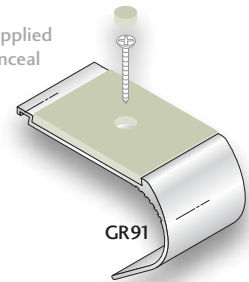
traditional aluminium - G range

G range

For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Mill finish aluminium
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



colour availability

Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

Exterior Insert: Lignite, Nebula, Nightsky, Sunrise.

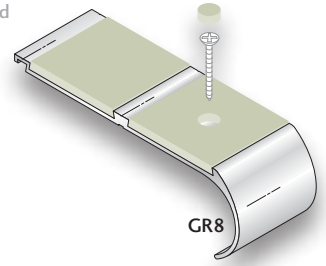
For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

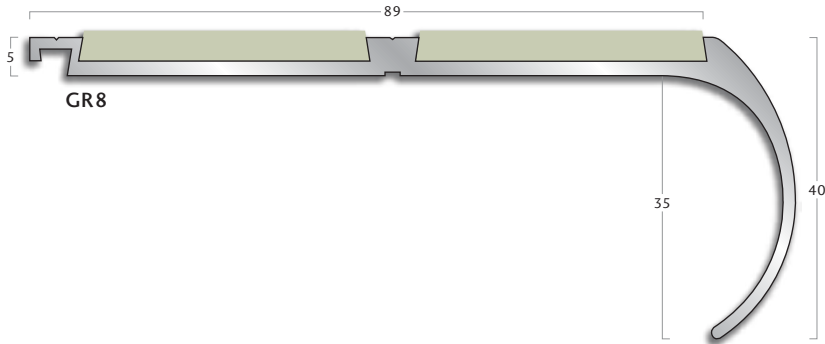
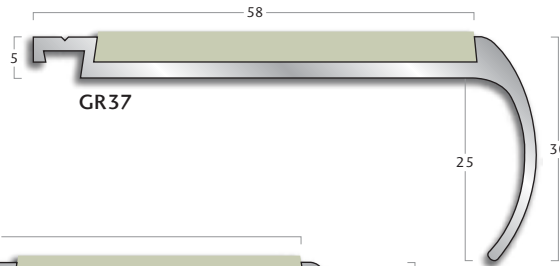
For recommended trims see individual profiles.

For further information on associated trims see pages 48 to 53.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing

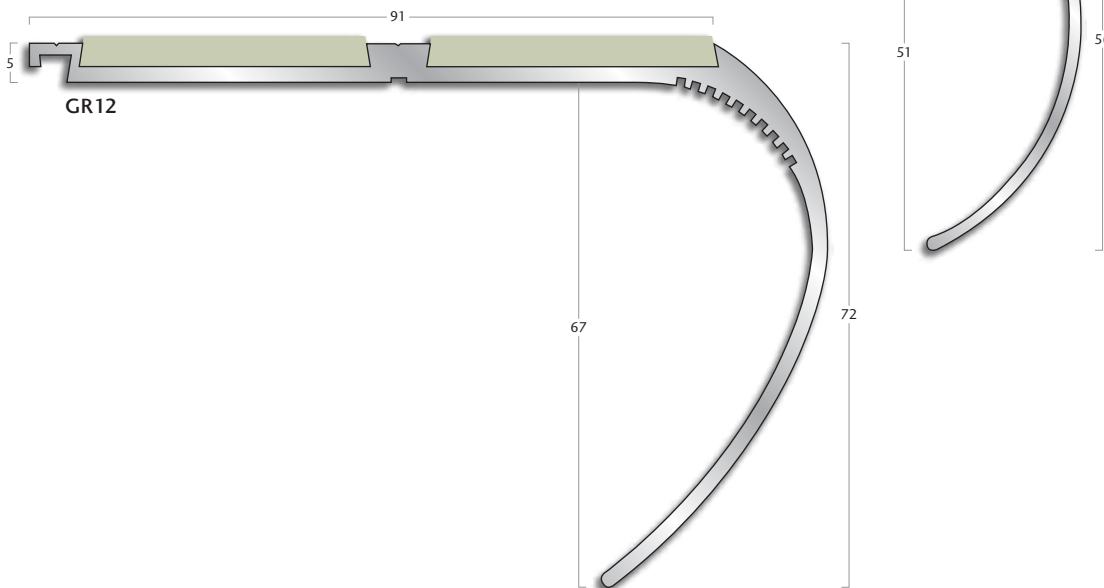
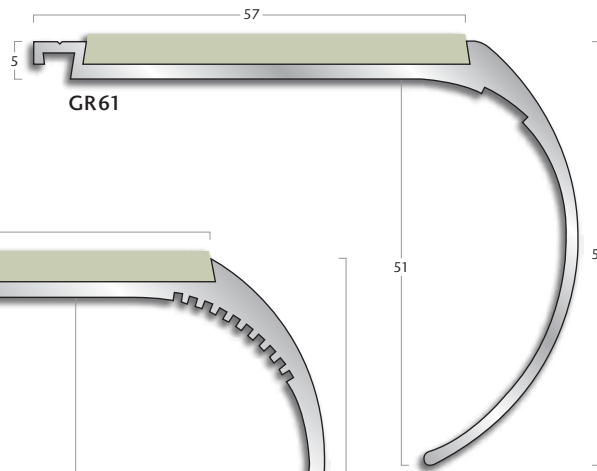
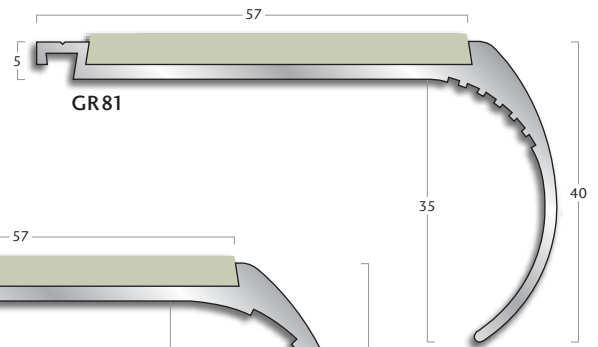


GR8



XT range

GR81 also available as XT profile see page 16.



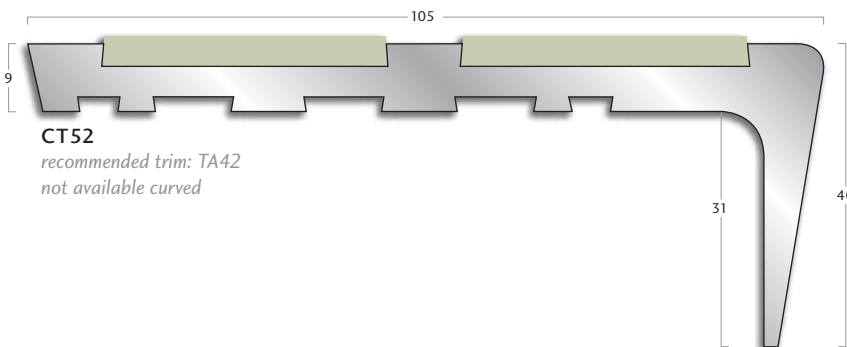
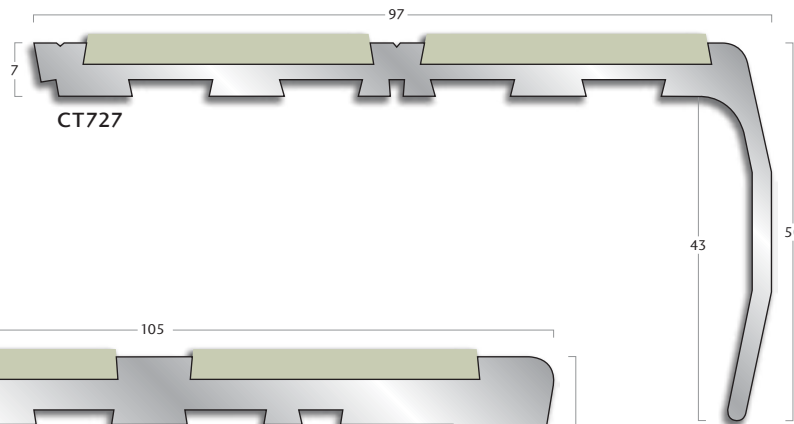
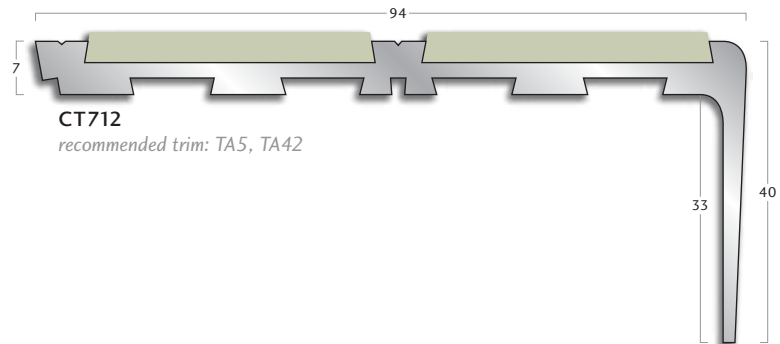
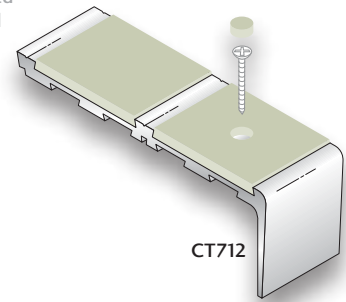
traditional aluminium - CT range

CT range

For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Mill finish aluminium
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with carpet, wood, ceramics and other heavy duty floorcoverings
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



colour availability

Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

Exterior Insert: Lignite, Nebula, Nightsky, Sunrise.

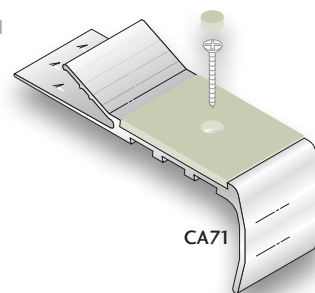
For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

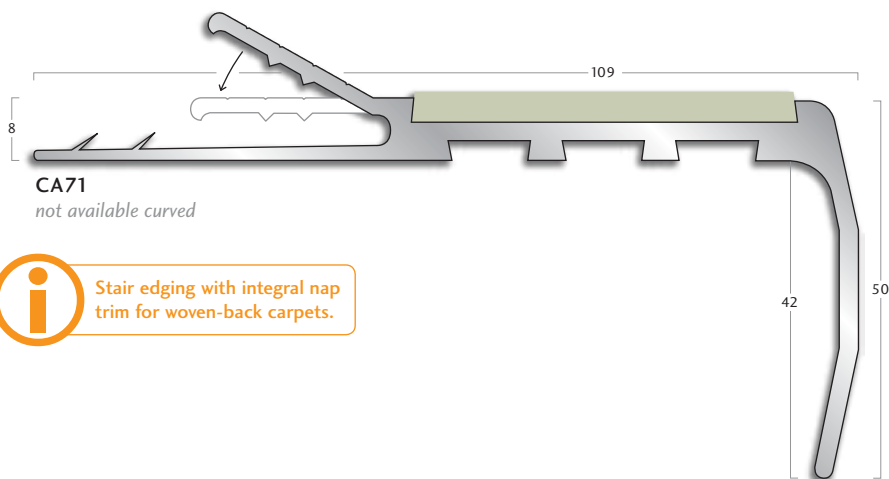
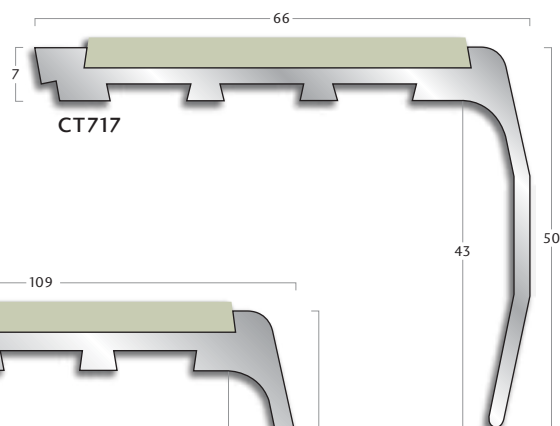
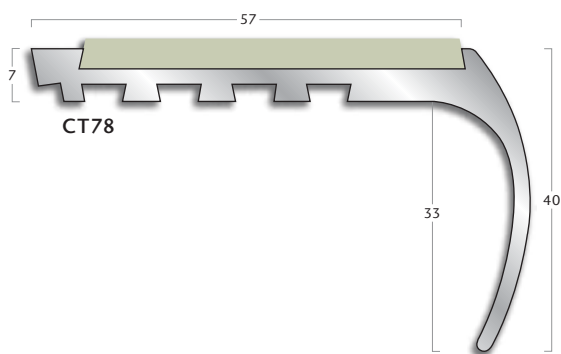
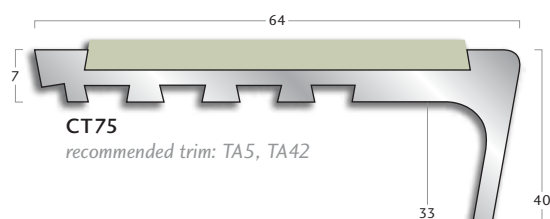
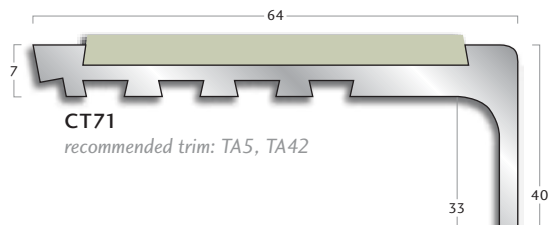
For further information on associated trims see pages 48 to 53.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



CA71

section 1



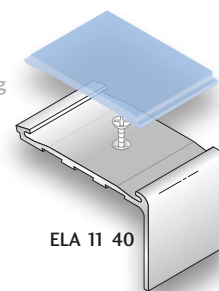
i Stair edging with integral nap trim for woven-back carpets.

elite range

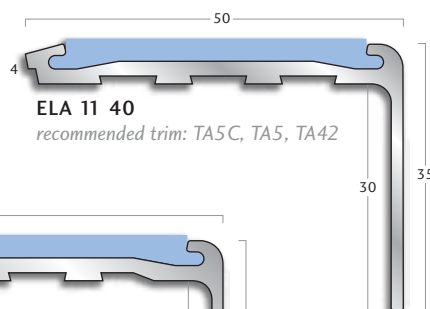
For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Mill finish aluminium
Insert	Interior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

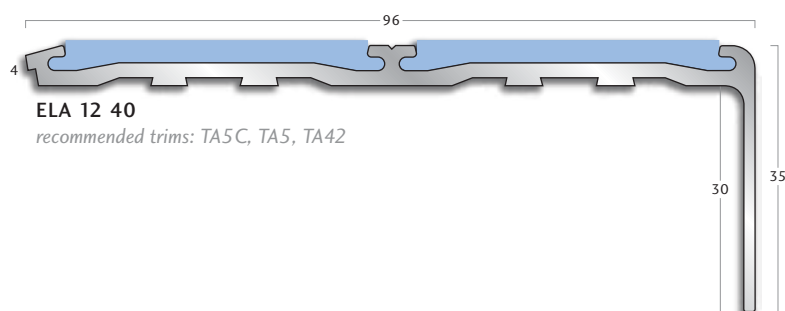
Concealed fixing eliminating the need for screw head cover plugs



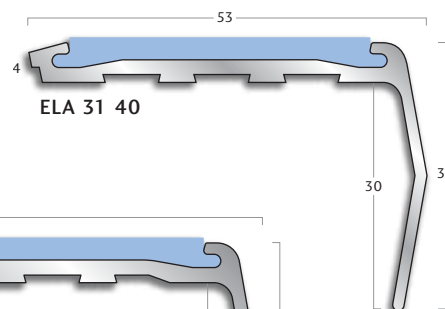
ELA 11 40



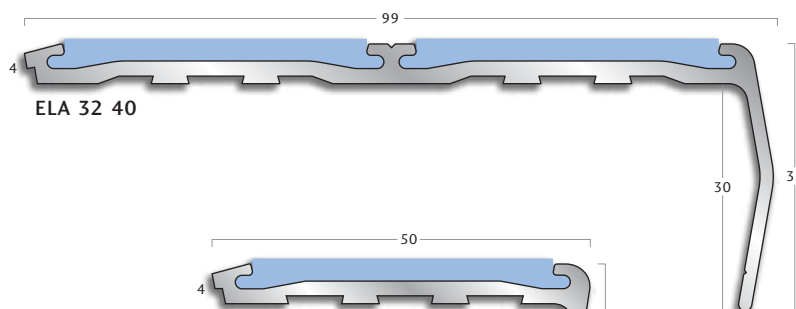
ELA 11 40
recommended trim: TA5C, TA5, TA42



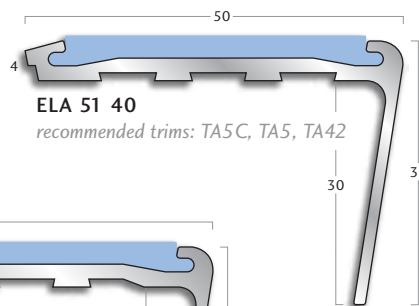
ELA 12 40
recommended trims: TA5C, TA5, TA42



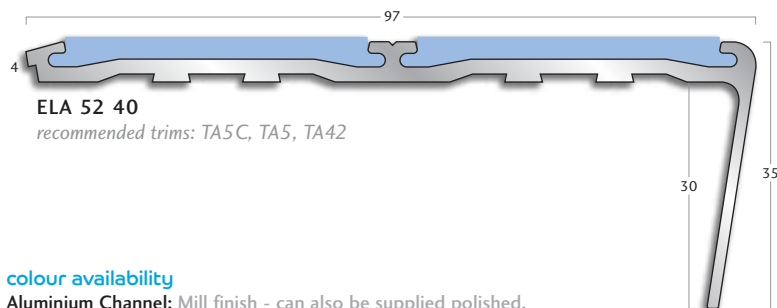
ELA 31 40



ELA 32 40



ELA 51 40
recommended trims: TA5C, TA5, TA42



ELA 52 40
recommended trims: TA5C, TA5, TA42



Design Service
see page 171.

colour availability

Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Elite Insert is supplied separately from the channel and must be specified separately.

The final 2 digits in the profile code indicate the width of insert required.

ELINS40 (40mm), ELINS50 (50mm), ELINS65 (65mm).

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

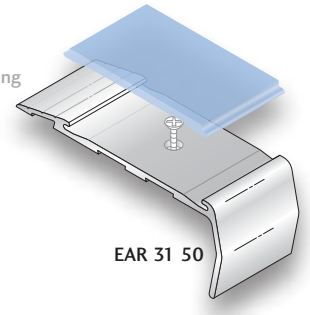
trims

For recommended trims see individual profiles.

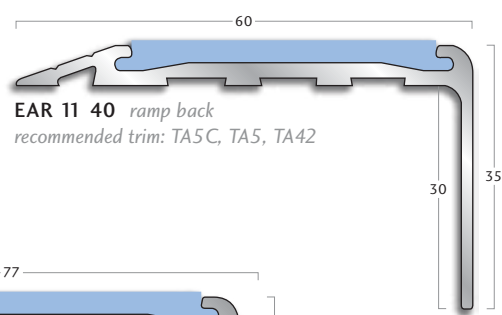
For further information on associated trims see pages 48 to 53.

i Ramp back profiles are suitable for use on steps where no floorcovering is used. When used with resilient flooring ramp back profiles should be installed on top of the floorcovering.

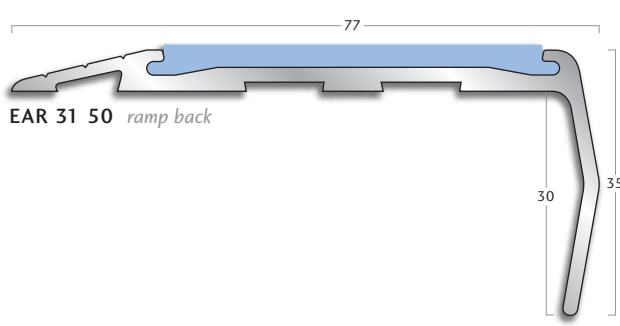
Concealed fixing eliminating the need for screw head cover plugs



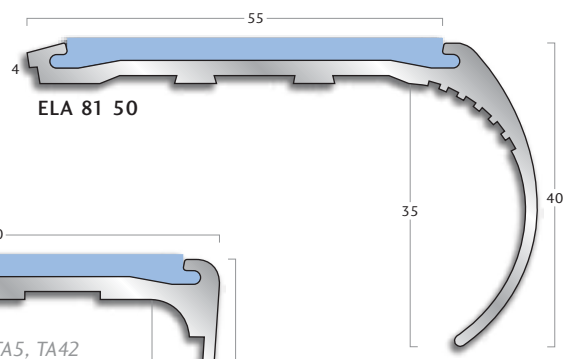
EAR 31 50



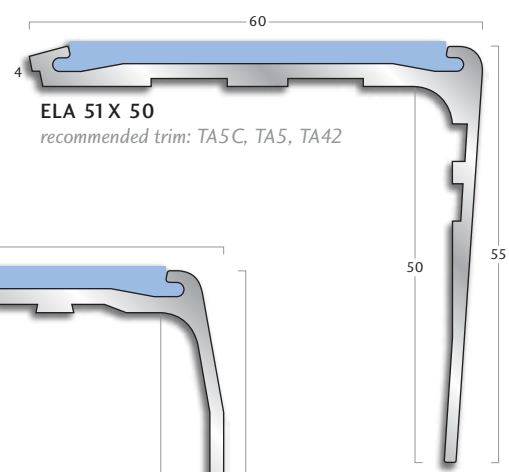
EAR 11 40 ramp back
recommended trim: TA5C, TA5, TA42



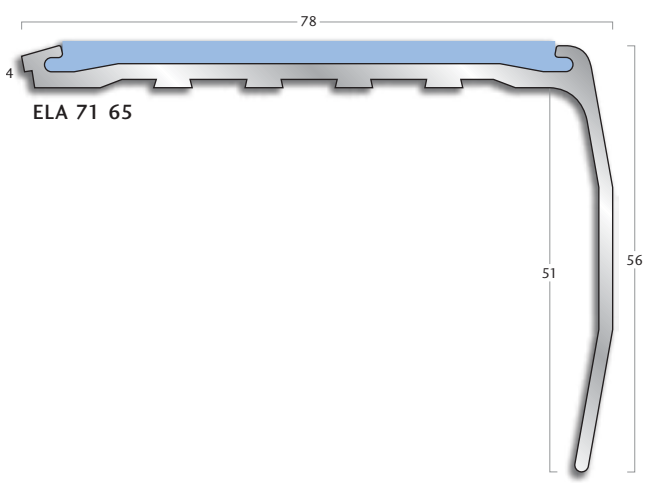
EAR 31 50 ramp back



ELA 81 50



ELA 51 X 50
recommended trim: TA5C, TA5, TA42



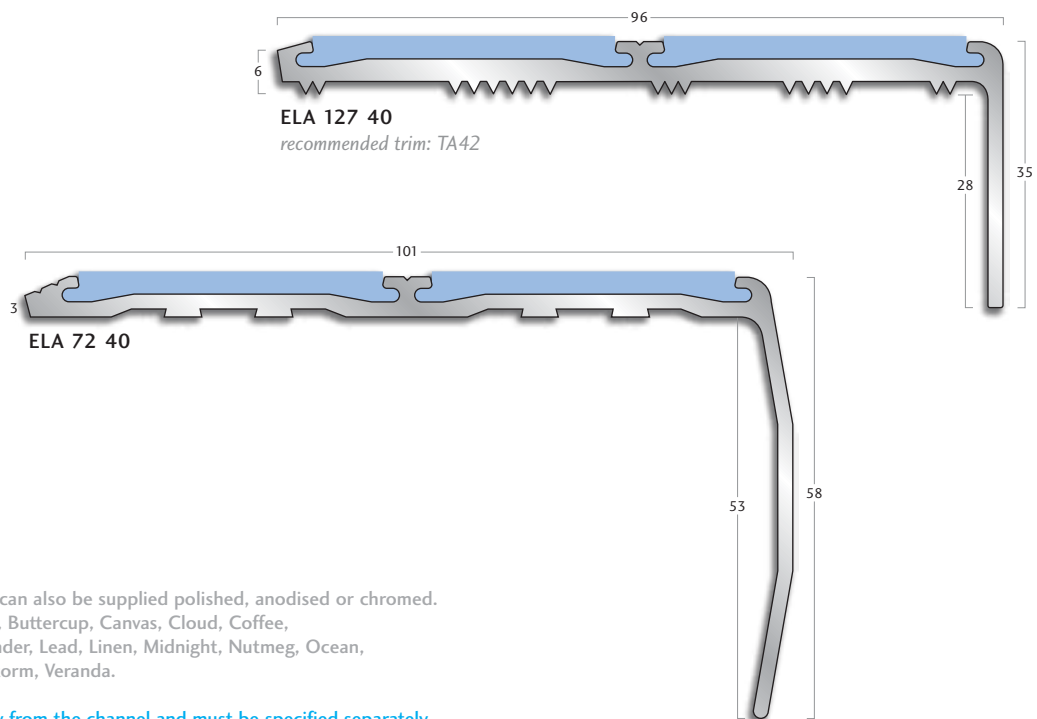
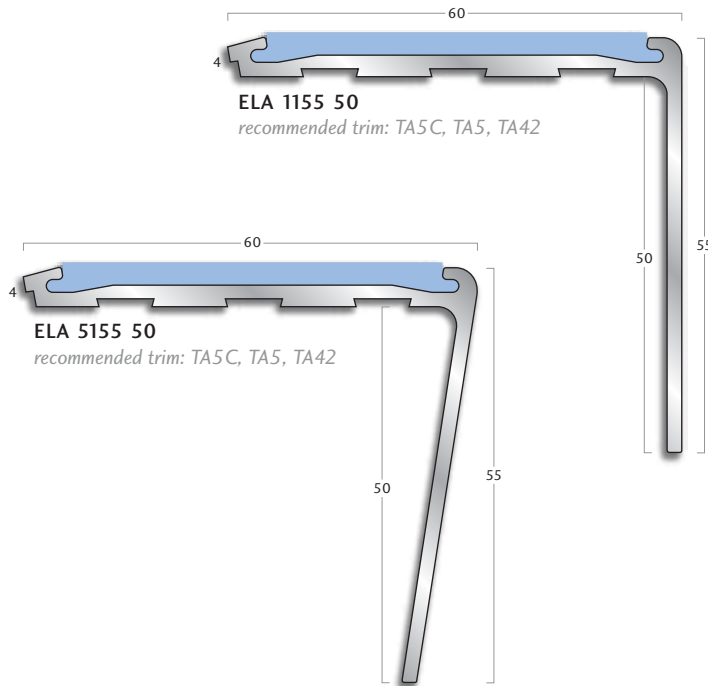
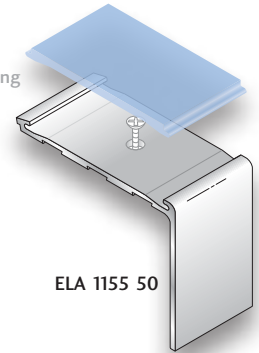
ELA 71 65

elite range

For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Mill finish aluminium
Insert	Interior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Concealed fixing eliminating the need for screw head cover plugs



colour availability

Aluminium Channel: Mill finish - can also be supplied polished, anodised or chromed.

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Elite Insert is supplied separately from the channel and must be specified separately.

The final 2 digits in the profile code indicate the width of insert required.

ELINS40 (40mm), ELINS50 (50mm).

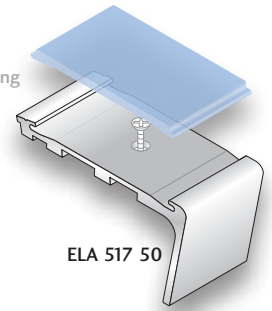
For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

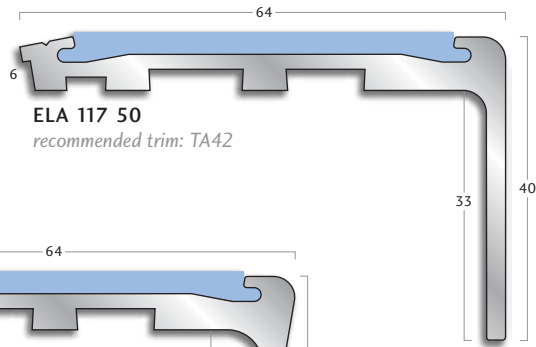
For further information on associated trims see pages 48 to 53.

Concealed fixing eliminating the need for screw head cover plugs

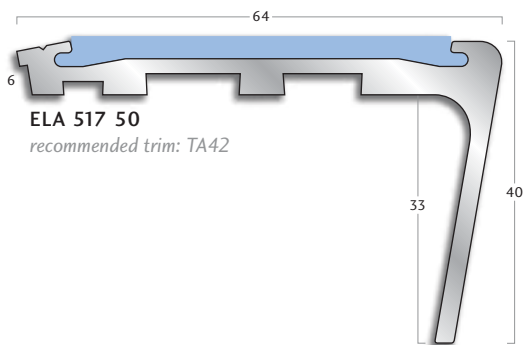


ELA 517 50

section 1



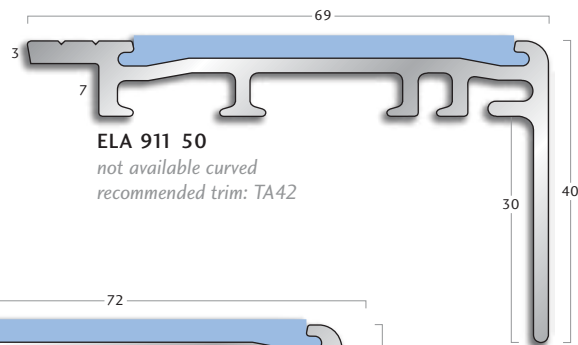
ELA 117 50
recommended trim: TA42



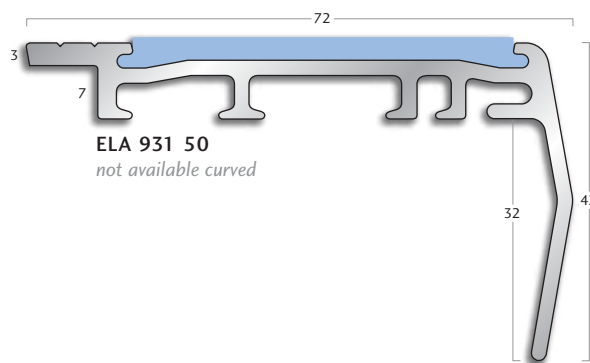
ELA 517 50
recommended trim: TA42



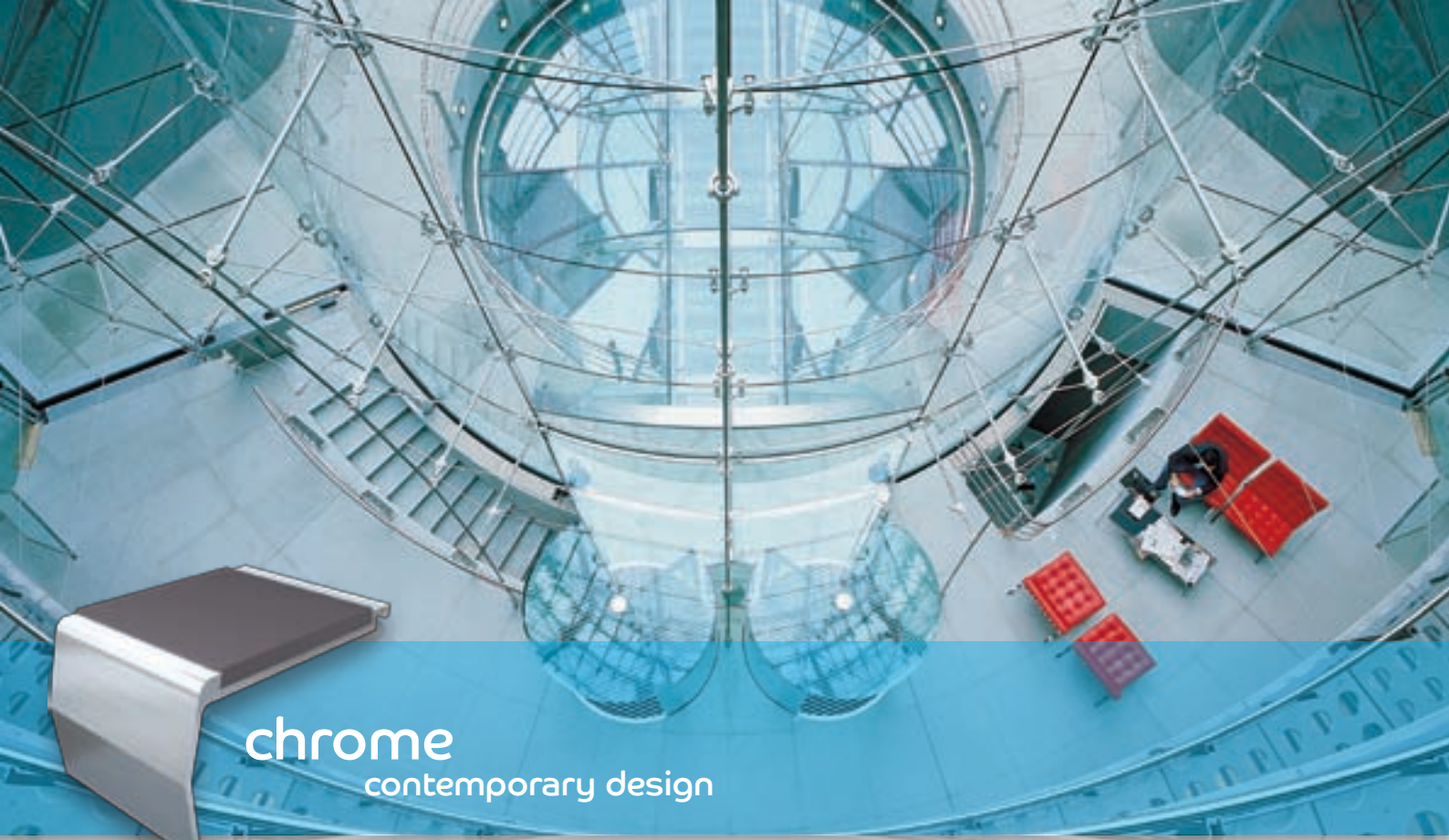
ELA91150 and ELA93150 for use with carpet tiles with a pre-bonded underlay.



ELA 911 50
not available curved
recommended trim: TA42



ELA 931 50
not available curved



chrome

contemporary design

description

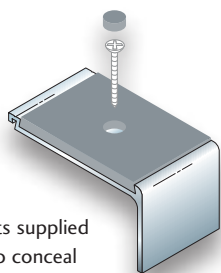
A bright attractive finish offering a contemporary modern look. Comprises chromed aluminium channels with slip resistant inserts (see page 13 for insert colours). For use in conjunction with floorcoverings from all major manufacturers. Suitable for light and medium traffic commercial applications.

shape of step?



* Kinked Face can be used on square and some rake back steps.

traditional stair edging



Traditional
Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing

profile availability

Gauge of profiles suitable for use with resilient floorcoverings (when used with a suitable bevelled underlay - see page 52) and carpet.

- Profile designs available to accommodate most stair shapes
- Complementary edge trim
- Available cut to finished length only
- Maximum continuous length 2m

finishes / environment

Chrome channels suitable for interior use only.

- In addition to the profiles shown opposite, chrome finish is available in other aluminium stair edgings (except the XT range), subject to minimum order quantity/surcharge
- Choice of insert for interior use: **Xtra-Grip**, available in 11 colours, for interior areas subject to wet conditions; Interior, (Standard and Grained) available in up to 23 colours

installation

Installation guidelines can be found on page 164.

- Traditional: Fusion bonded insert supplied with plugs

services

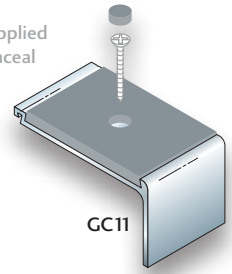
- Technical Services
- Samples
- Design Service
- Profiles can be fabricated
- Measuring and templating

Chrome range

For guidance on the correct selection of stair edgings see pages 8 to 11.

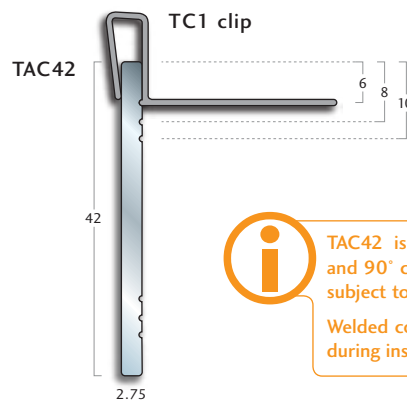
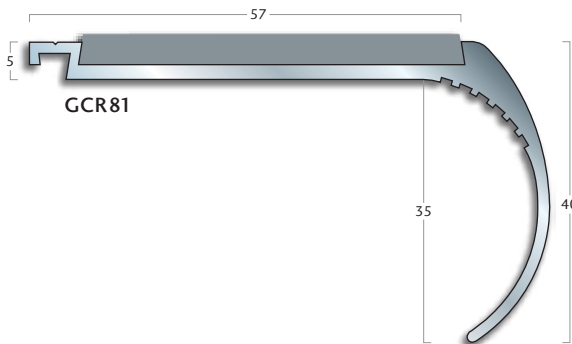
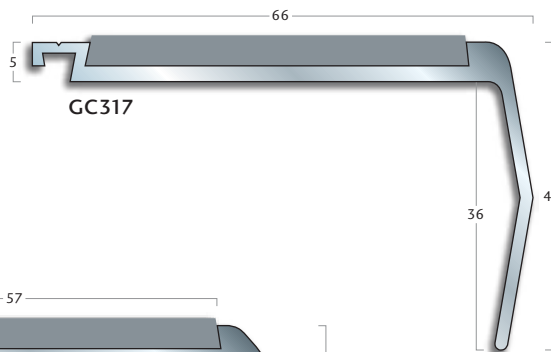
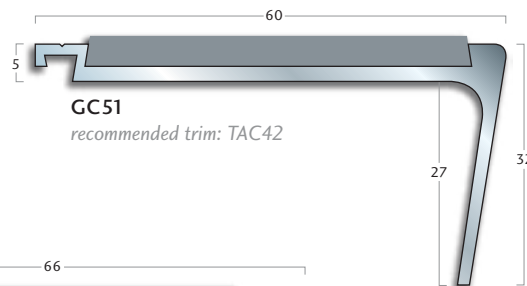
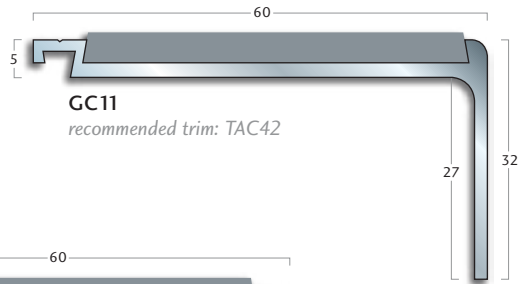
Channel	Chrome finish aluminium
Insert	Xtra-Grip or Interior
Gauge	Typically used with resilient flooring (when used with a suitable bevelled underlay - page 52) and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



Design Service
see page 171.

section 1



i TAC42 is available as standard in 83° and 90° corners. Other angles available subject to minimum quantity/surcharge. Welded corners should be mitre finished during installation and not butt jointed.

colour availability

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

For a quick colour reference guide use the back cover foldout. For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles. For further information on associated trims see pages 48 to 53.



bronze prestigious locations

description

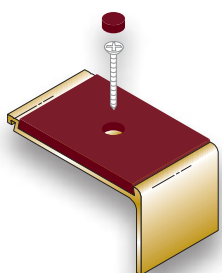
An extensive range of attractive and hardwearing stair edgings comprising bronze channels with slip resistant inserts. For use with most floorcoverings. Provides an ideal finish for prestigious locations such as theatres, banks, hotels etc. Stair edgings help to achieve an inclusive environment in line with The Building Regulations 2000 - Approved Document M (May 2004) see pages 168 and 169.

shape of step?

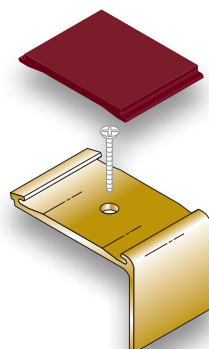


* Kinked Face can be used on square and some rake back steps.

which stair edging?



Traditional
Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



Elite
Concealed fixing eliminating the need for screw head cover plugs

profile availability

Gauge of profiles suitable for most floorcoverings.
See page 56 for recommended stair edging to suit floorcovering.

- Profile designs available to accommodate most stair shapes
- Choice of Traditional or Elite profiles
- Choice of profile to suit traffic conditions e.g. single or double channel
- Complementary edge trims

finishes / environment

Bronze channels suitable for interior and exterior use.

- Insert choice for interior and exterior use
- Channels in polished manganese bronze. Use a proprietary metal polish to maintain polished finish or allow to oxidise naturally
- When specifying a double channel stair edging both inserts should be the same colour, and should be of a contrasting colour to the surrounding floor finish
- Choice of insert for interior use: **Xtra-Grip**, available in 11 colours, for interior areas subject to wet conditions (traditional channel only); Interior (Standard, Grained and Elite) available in up to 23 colours
- Exterior insert, available in 4 colours, for exterior areas subject to wet conditions (traditional channel only)

installation

Installation guidelines can be found on page 164.

- Elite: concealed fixing, inserts fitted on site
- Traditional: Fusion bonded insert supplied with plugs

services

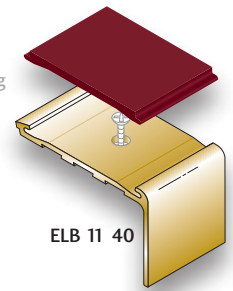
- **Technical Services**
- **Samples**
- **Design Service**
- **Profiles can be fabricated**
- **Measuring and templating**
- **10 year warranty**

elite range

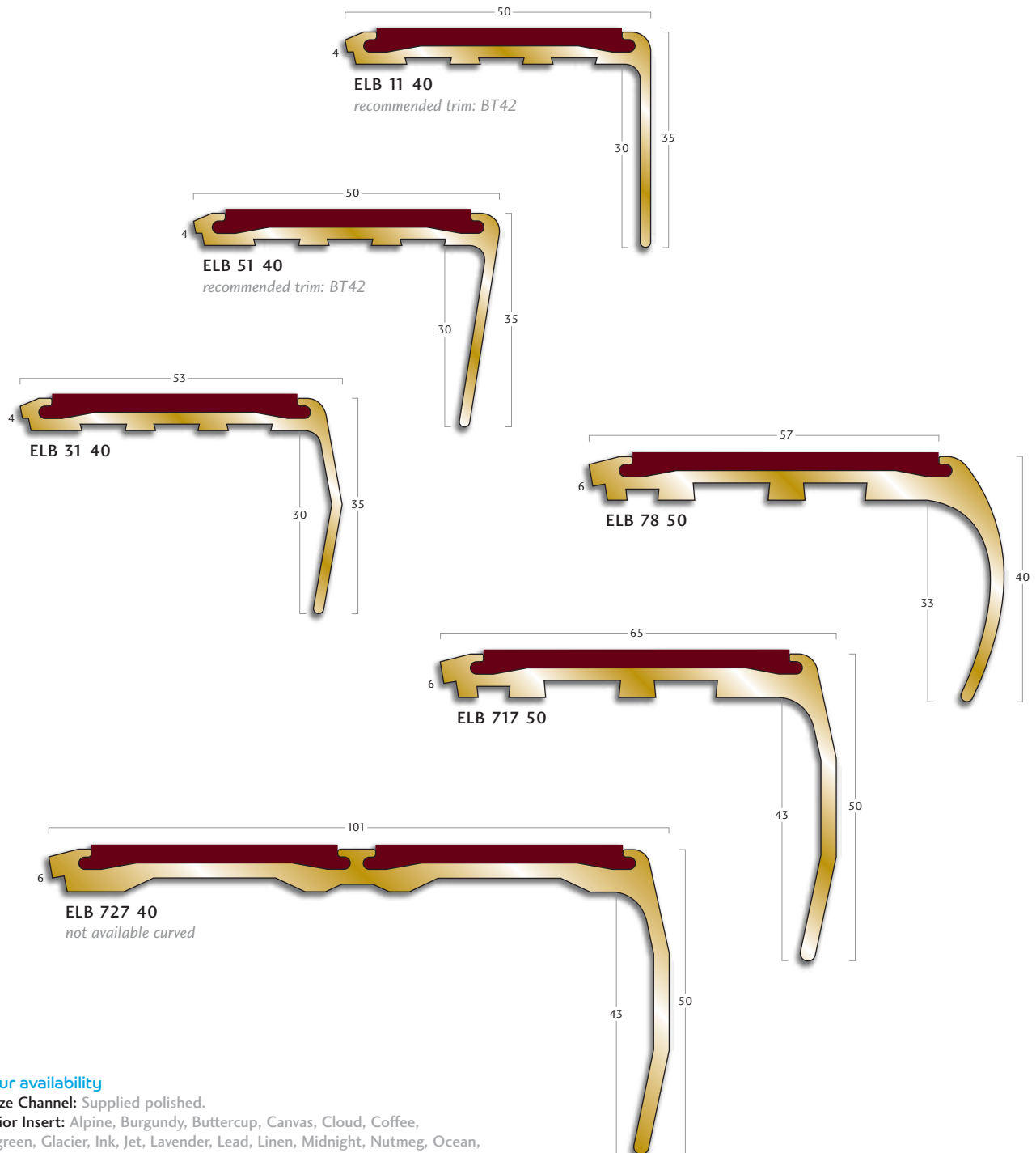
For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Polished manganese bronze
Insert	Interior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Concealed fixing eliminating the need for screw head cover plugs



section 1



colour availability

Bronze Channel: Supplied polished.

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Elite Insert is supplied separately from the channel and must be specified separately.

The final 2 digits in the profile code indicate the width of insert required.

ELINS40 (40mm), ELINS50 (50mm).

For a quick colour reference guide use the back cover foldout.

For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

For further information on associated trims see pages 48 to 53.

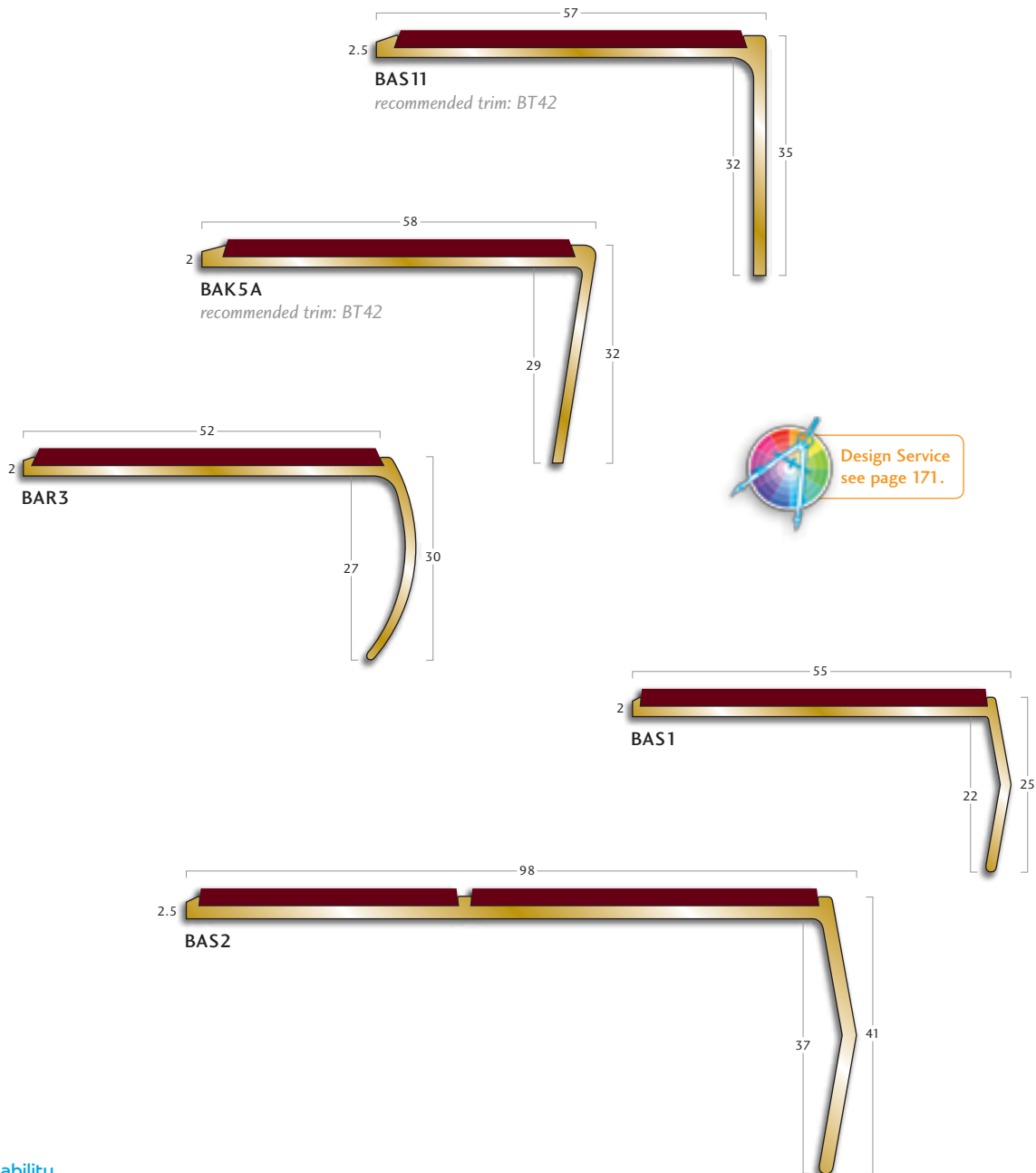
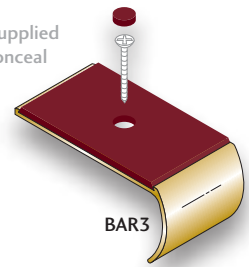
traditional bronze - BA range

BA range

For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Polished manganese bronze
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with resilient flooring
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



colour availability

Bronze Channel: Supplied polished.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

Exterior Insert: Lignite, Nebula, Nightsky, Sunrise.

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

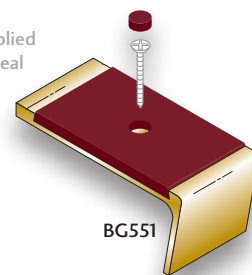
For further information on associated trims see pages 48 to 53.

BG range

For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Polished manganese bronze
Insert	Xtra-Grip, Interior or Exterior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing

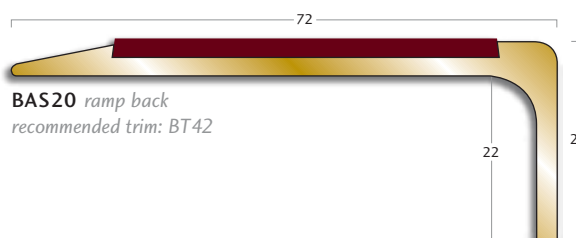


BG551

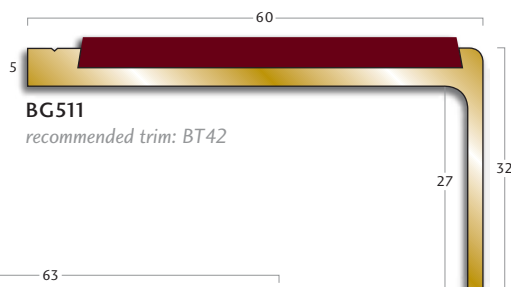


Ramp back profiles are suitable for use on steps where no floorcovering is used.

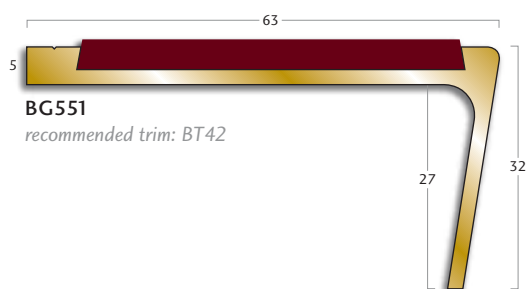
When used with resilient flooring ramp back profiles should be installed on top of the floorcovering.



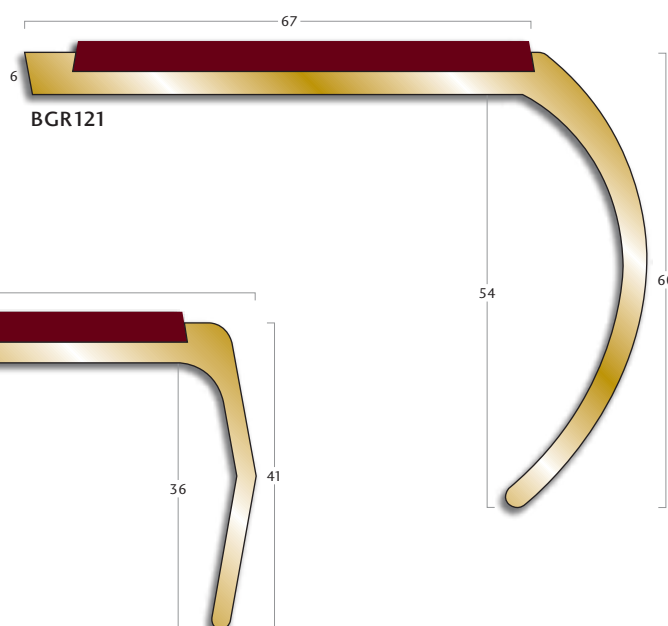
BAS20 ramp back
recommended trim: BT42



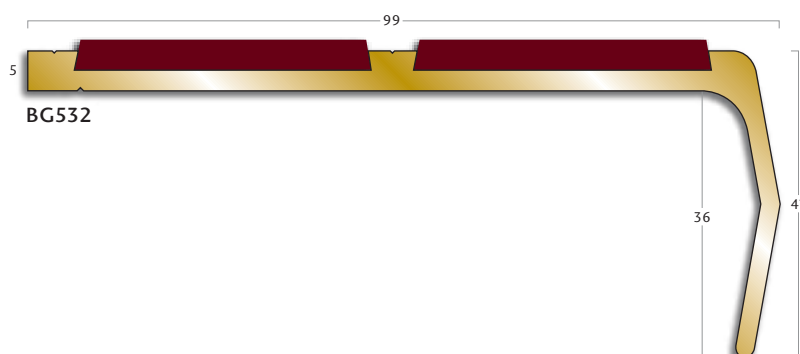
BG511
recommended trim: BT42



BG551
recommended trim: BT42



BGR121



BG532



PVC-u hardnose® decorative colours and effects

Peter MacKinven/View.

description

Gradus Hardnose® is an extensive range of attractive and hardwearing stair edgings comprising PVC-u channels and slip resistant inserts that can be used to complement any design scheme.

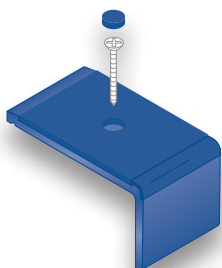
A choice of Traditional and Elite channels is available in satin and metallic finish (Elite only) Hardnose, which are combined with a choice of inserts. The ideal solution for creating a single solid band of colour to define the step edge, in line with Approved Document M (ADM) 2004 guidelines (see pages 168 and 169). In addition, the Hardnose DDA and RNC profiles provide a new edge in safety for stairs and have been developed in line with the latest research from BRE (see page 170).

shape of step?

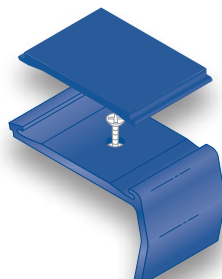


* Kinked Face can be used on square and some rake back steps.

which stair edging?



Traditional
Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



Elite
Concealed fixing eliminating the need for screw head cover plugs

profile availability

Gauge of profiles suitable for most floorcoverings.
See page 56 for recommended stair edging to suit floorcovering.

- Profile designs available to accommodate most stair shapes
- Choice of profile to suit traffic levels e.g. single or double channel
- Complementary edge trims
- Choice of Traditional or Elite profiles
- New DDA and RNC profiles offering additional slip resistance

finishes / environment

PVC-u Hardnose channels suitable for interior use.

- It is recommended that channel and insert colours are matched to provide a single solid band of colour that contrasts with the surrounding floorcovering
- When specifying a double channel stair edging both inserts should be the same colour, and should be of a contrasting colour to the surrounding floor finish
- PVC-u channel available in 2 finishes - Satin and Metallic (Elite only)
- Choice of insert for interior use: **Xtra-Grip**, available in 11 colours, for interior areas subject to wet conditions (traditional channel only); Interior (Standard, Grained and Elite) available in up to 23 colours

installation

Installation guidelines can be found on page 164.

- Elite: concealed fixing, inserts fitted on site
- Traditional: Fusion bonded insert supplied with plugs

services

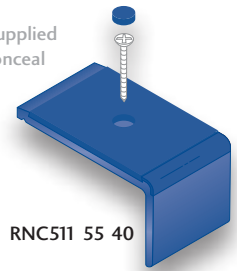
- Technical Services
- Samples
- Design Service
- Profiles can be fabricated
- Measuring and templating
- 10 year warranty

DDA + RNC range

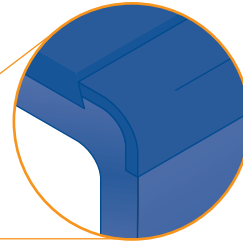
For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	PVC-u
Insert	Xtra-Grip or Interior
Gauge	RNRC is typically used with resilient floorcoverings or where there is no floorcovering DDA and RNC are suitable for use with carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

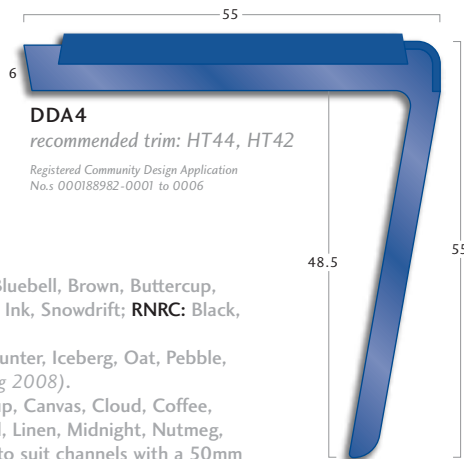
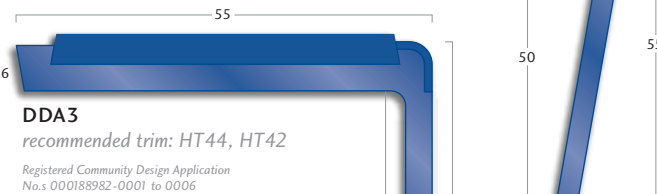
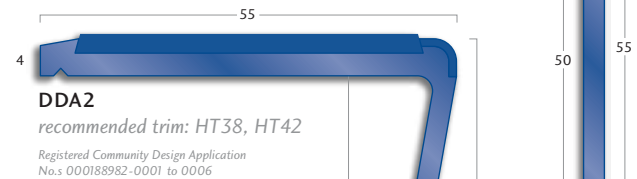
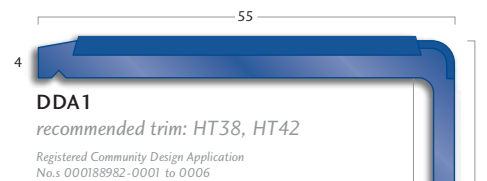
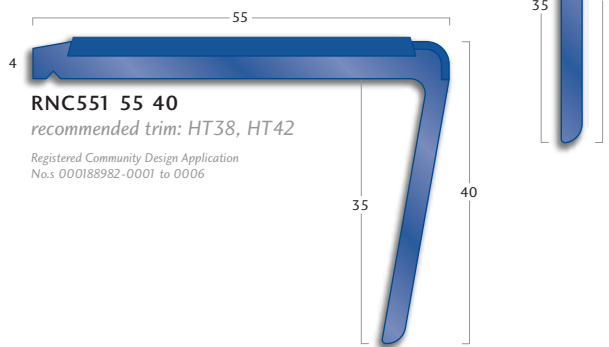
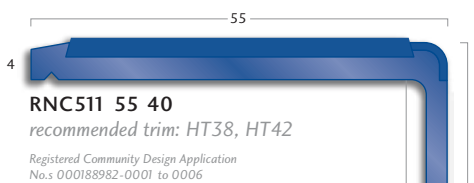
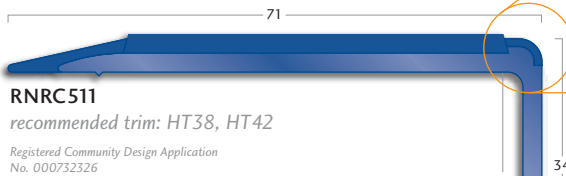
Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



RNC511 55 40



section
1



DDA + RNC Profiles – the new edge in safety for stairs

These profiles feature an extended insert design to provide additional slip resistance around the leading edge of the stair edging. This ensures that foot contact is always made with the slip resistant element of the stair edging. Profiles are available with 55mm treads and 40mm or 55mm risers to meet ADM 2004 and BS8300:2001 guidelines.



Design Service
see page 171.



For guidance on the use of DDA profiles see pages 168 to 170.

colour availability

Hardnose Channel - DDA + RNC: Black, Bluebell, Brown, Buttercup, Canvas, Dove, Evergreen, Glacier, Granite, Ink, Snowdrift; **RNRC:** Black, Buttercup, Glacier, Granite, Ink.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

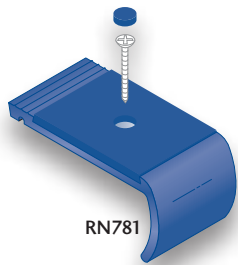
For recommended trims see individual profiles.
For further information on associated trims see pages 48 to 53.

traditional hardnose® - satin finish - RN range

RN range

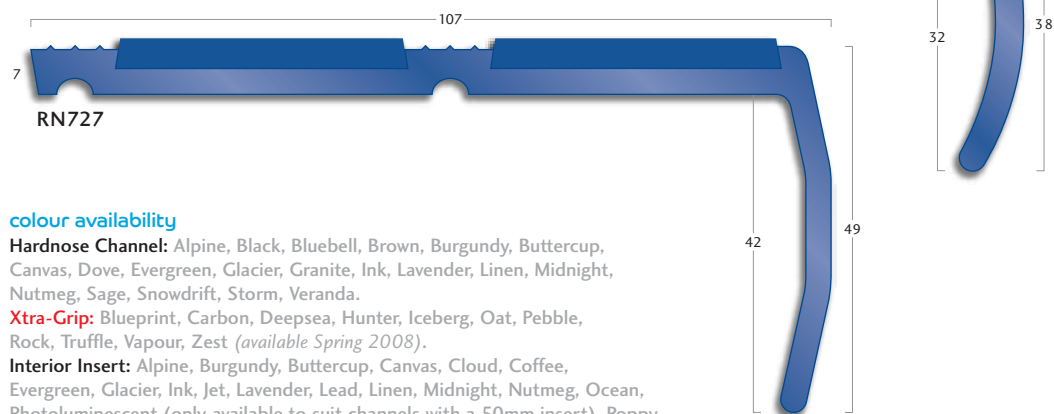
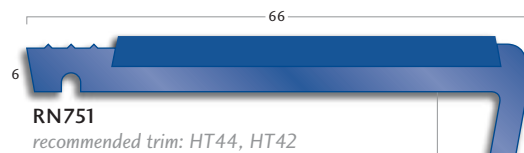
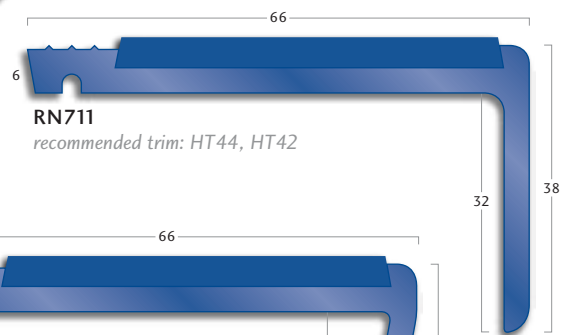
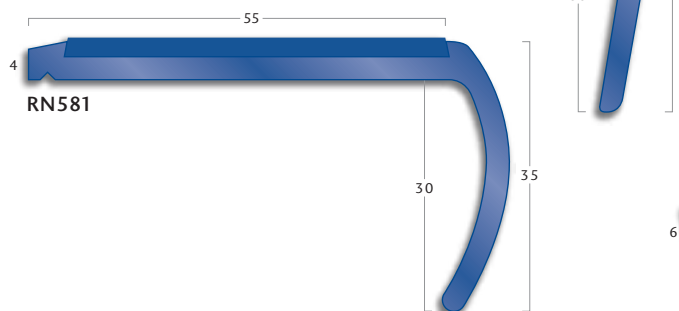
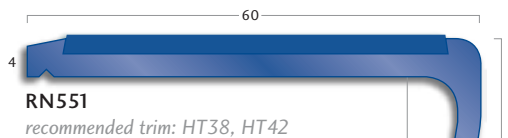
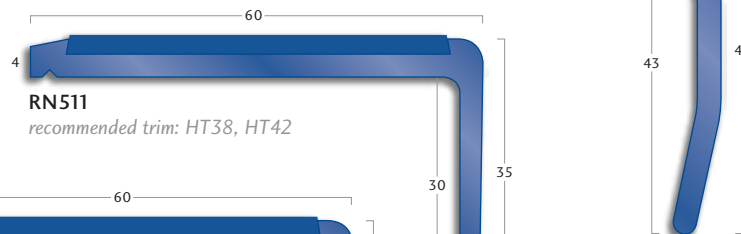
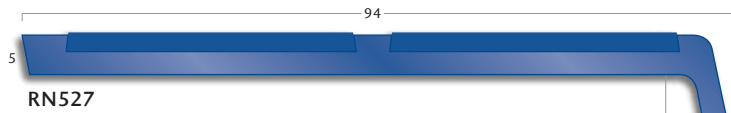
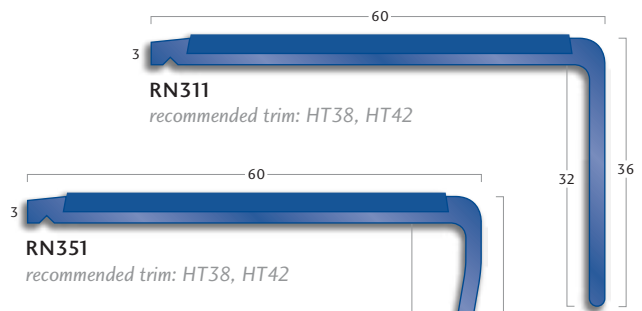
For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	PVC-u
Insert	Xtra-Grip or Interior
Gauge	Typically used with resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.



RN781

Fusion bonded inserts supplied with capping plugs to conceal screw heads after fixing



colour availability

Hardnose Channel: Alpine, Black, Bluebell, Brown, Burgundy, Buttercup, Canvas, Dove, Evergreen, Glacier, Granite, Ink, Lavender, Linen, Midnight, Nutmeg, Sage, Snowdrift, Storm, Veranda.

Xtra-Grip: Blueprint, Carbon, Deepsea, Hunter, Iceberg, Oat, Pebble, Rock, Truffle, Vapour, Zest (available Spring 2008).

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Photoluminescent (only available to suit channels with a 50mm insert), Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Interior Insert - Grained: Black, Bluebell, Brown, Dove, Granite.

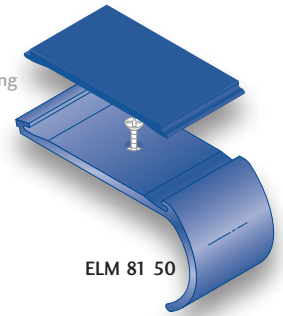
For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

elite ELM range

For guidance on the correct selection of stair edgings see pages 8 to 11.

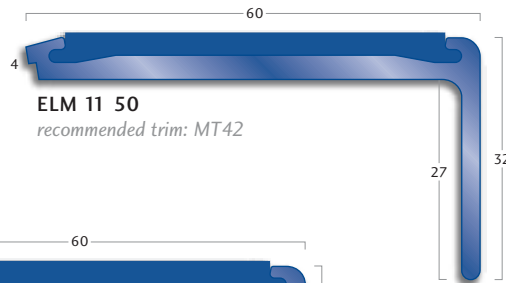
Channel	PVC-u
Insert	Interior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Concealed fixing eliminating the need for screw head cover plugs

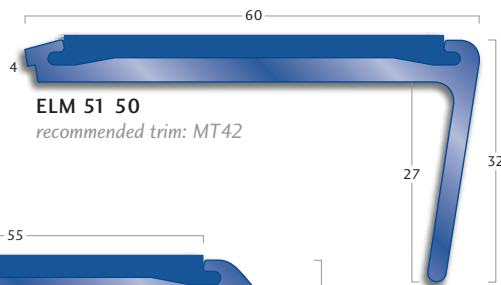


ELM 81 50

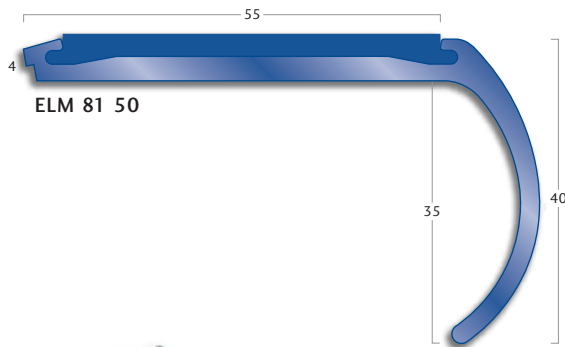
section 1



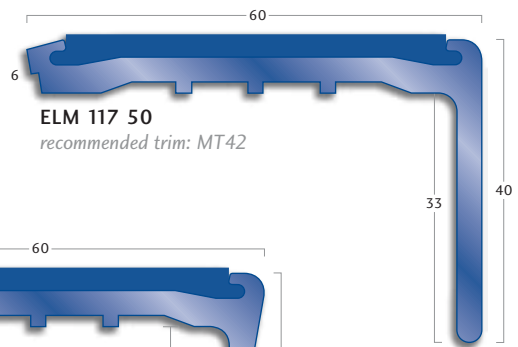
ELM 11 50
recommended trim: MT42



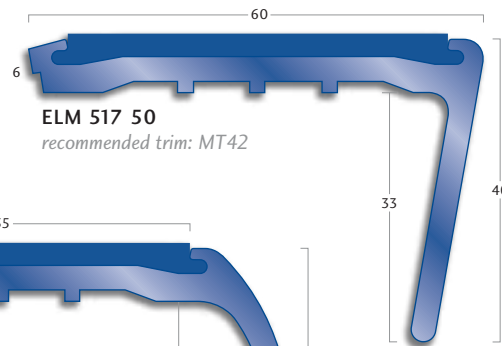
ELM 51 50
recommended trim: MT42



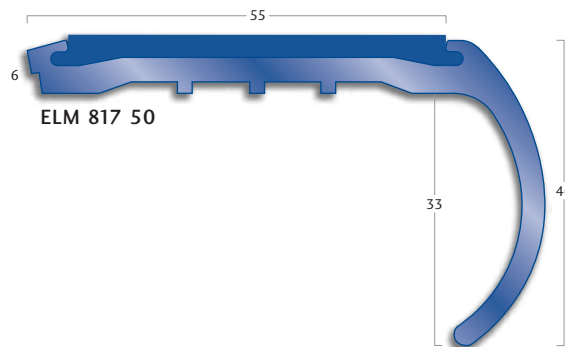
ELM 81 50



ELM 117 50
recommended trim: MT42



ELM 517 50
recommended trim: MT42



ELM 817 50



Design Service
see page 171.

colour availability

Elite Metallic Hardnose Channel: Burnt Almond, Doubloon, Silver, Zinc.

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Elite Insert is supplied separately from the channel and must be specified separately.

The final 2 digits in the profile code indicate the width of insert required.

ELINS50 (50mm).

For a quick colour reference guide use the back cover foldout.

For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

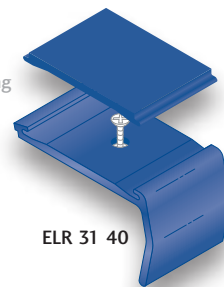
For further information on associated trims see pages 48 to 53.

elite ELR range

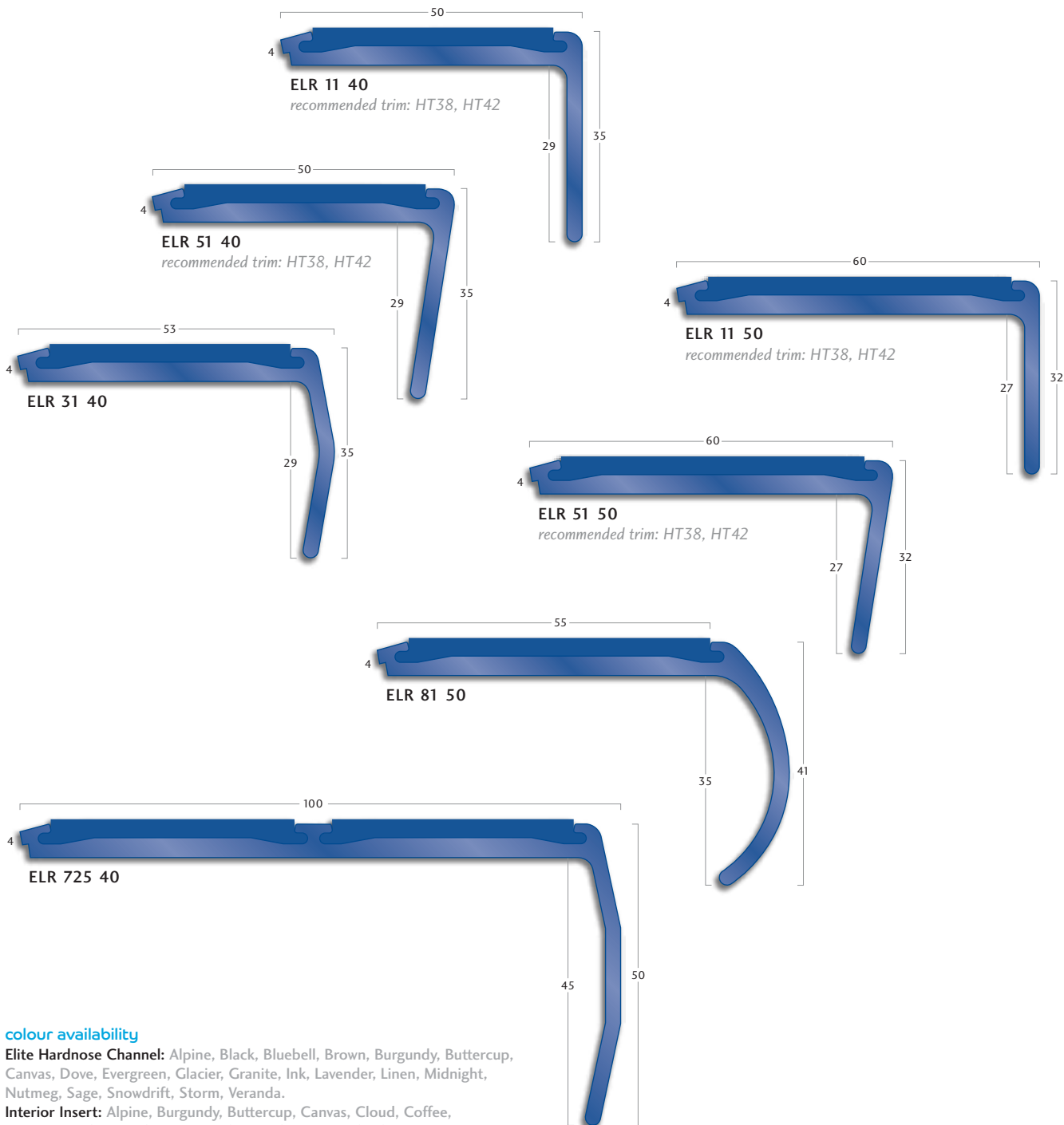
For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	PVC-u
Insert	Interior
Gauge	Typically used with heavy resilient flooring and carpet
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

Concealed fixing eliminating the need for screw head cover plugs



ELR 31 40



colour availability

Elite Hardnose Channel: Alpine, Black, Bluebell, Brown, Burgundy, Buttercup, Canvas, Dove, Evergreen, Glacier, Granite, Ink, Lavender, Linen, Midnight, Nutmeg, Sage, Snowdrift, Storm, Veranda.

Interior Insert: Alpine, Burgundy, Buttercup, Canvas, Cloud, Coffee, Evergreen, Glacier, Ink, Jet, Lavender, Lead, Linen, Midnight, Nutmeg, Ocean, Poppy, Sage, Snowdrift, Steel, Storm, Veranda.

Elite Insert is supplied separately from the channel and must be specified separately.

The final 2 digits in the profile code indicate the width of insert required.

ELINS40 (40mm), ELINS50 (50mm).

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see pages 12 to 13.

trims

For recommended trims see individual profiles.

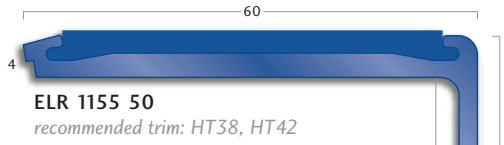
For further information on associated trims see pages 48 to 53.

Concealed fixing eliminating the need for screw head cover plugs

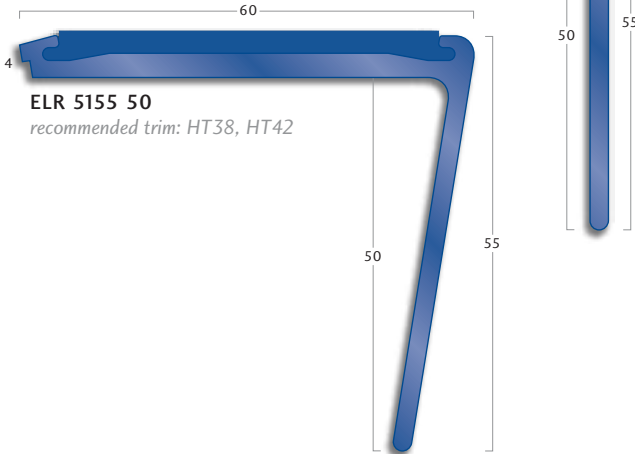


ELR 5155 50

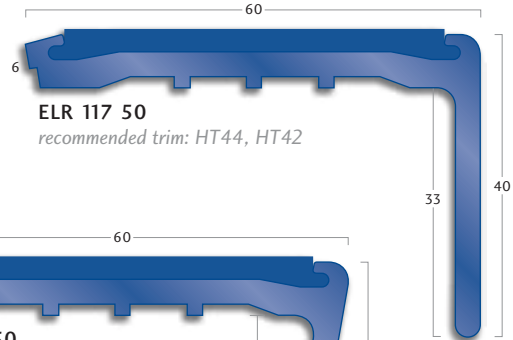
section 1



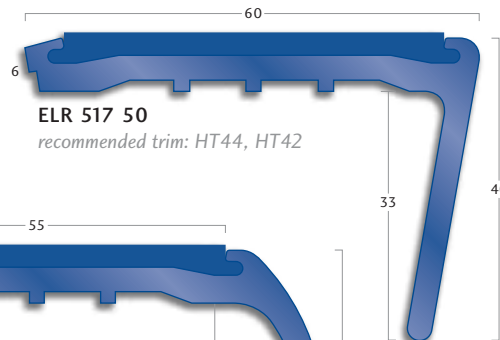
ELR 1155 50
recommended trim: HT38, HT42



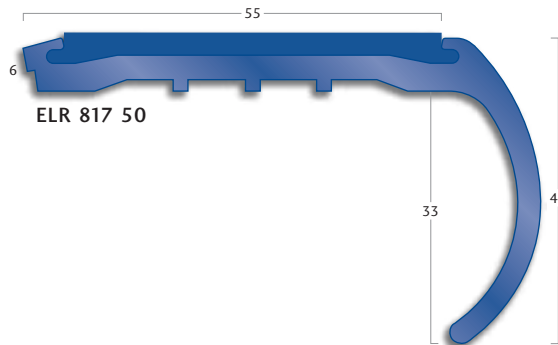
ELR 5155 50
recommended trim: HT38, HT42



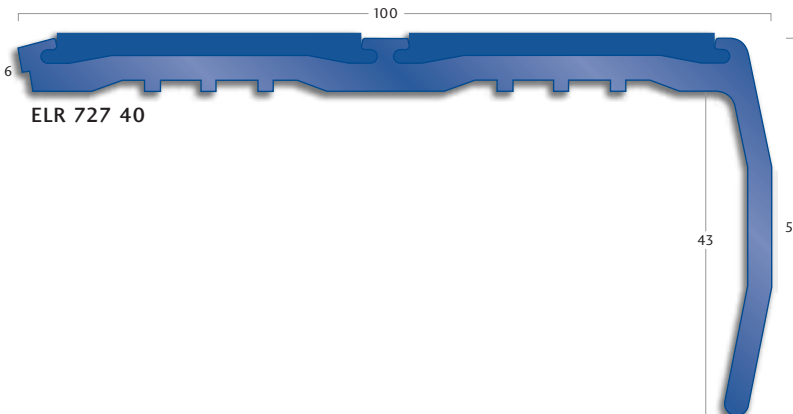
ELR 117 50
recommended trim: HT44, HT42



ELR 517 50
recommended trim: HT44, HT42



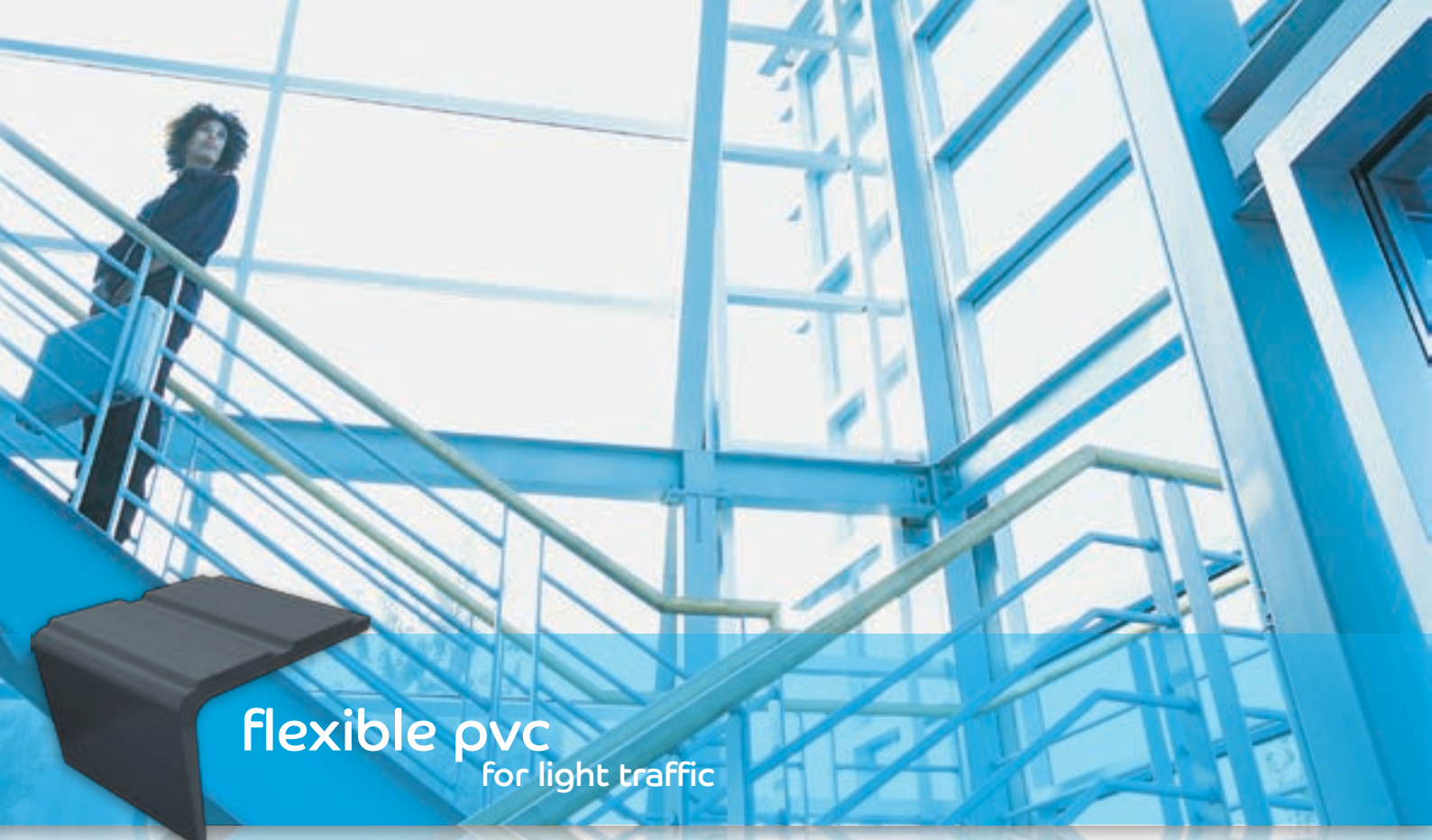
ELR 817 50



ELR 727 40



Design Service
see page 171.



flexible pvc for light traffic

description

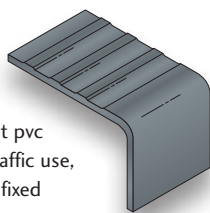
A range of one-piece slip resistant stair edgings recommended for use on escape stairs and in other light traffic areas.

shape of step?



one-piece stair edging

One-piece slip resistant pvc stair edging for light traffic use, cut to size on site and fixed with adhesive



profile availability

Gauge of profiles suitable for resilient floorcoverings. See page 56 for recommended stair edging to suit floorcovering.

- Profile designs available to accommodate most stair shapes
- Available in 2.5 and 3.0mm gauge
- Complementary edge trims
- Supplied in 2.75m and 3.20m stock lengths

finishes / environment

Pvc channels suitable for light traffic interior use.

- Available in choice of 5 colours

installation

Installation guidelines can be found on page 164.

- Cut to size on site. Fixed with suitable adhesive

services

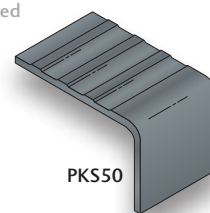
- **Technical Services**
- **Samples**
- **Design Service**

flexible pvc

For guidance on the correct selection of stair edgings see pages 8 to 11.

Channel	Pvc (matt)
Gauge	Recommended for light traffic, e.g. escape stairs Typically used with resilient floorings
Profiles	Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

One piece slip resistant pvc stair edging for light traffic use, cut to size on site and fixed with adhesive

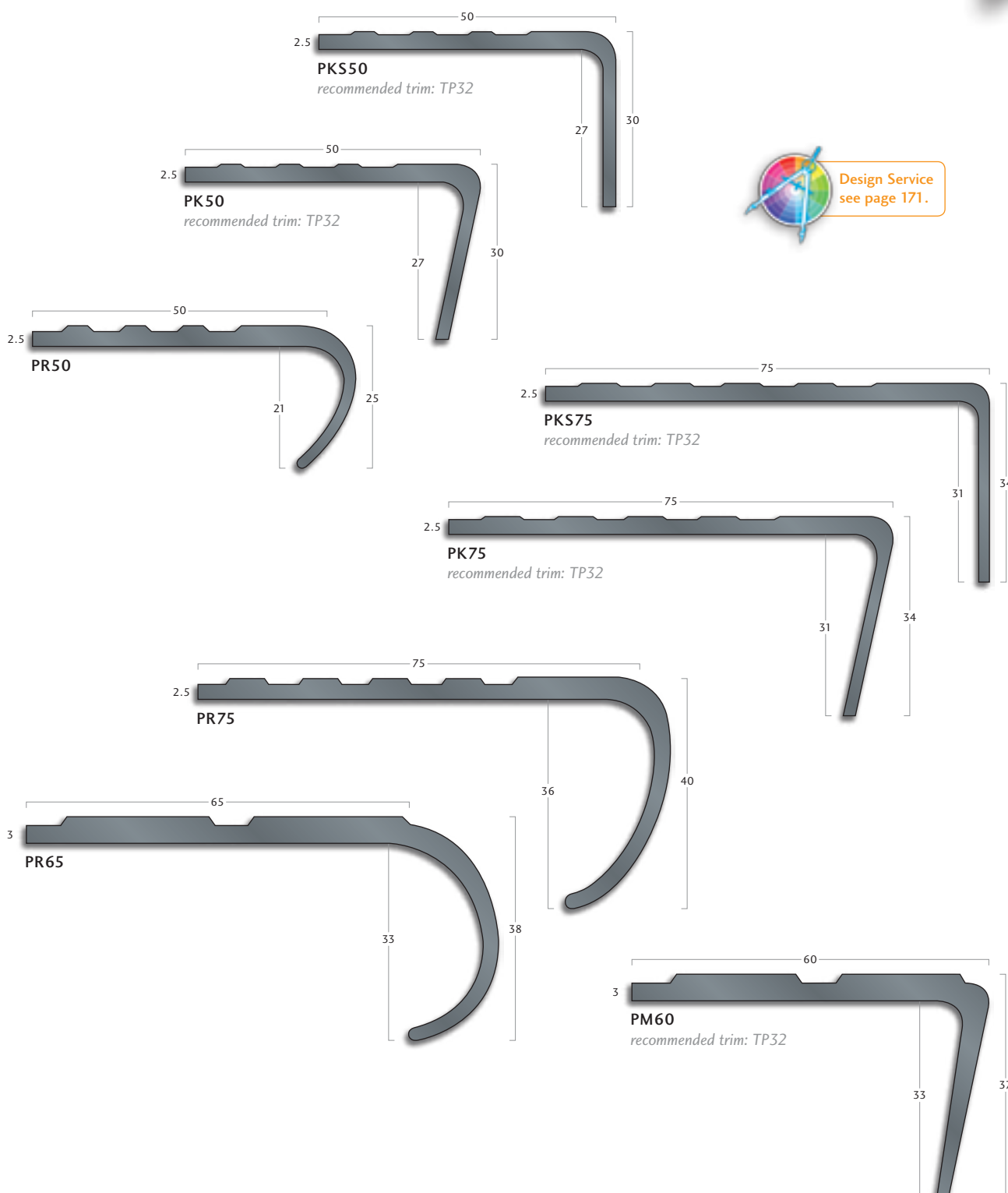


PKS50

section 1



Design Service
see page 171.



colour availability

Flexible pvc: Black, Brown, Dove, Granite, Snowdrift.

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see page 12.

trims

For recommended trims see individual profiles.
For further information on associated trims see pages 48 to 53.

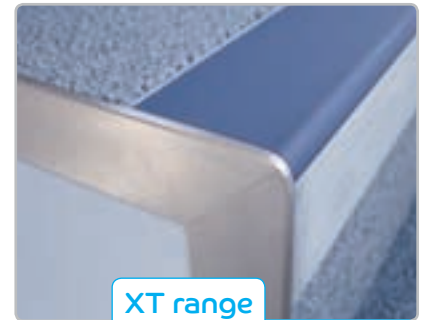
guide to stair trims & welded corners

description

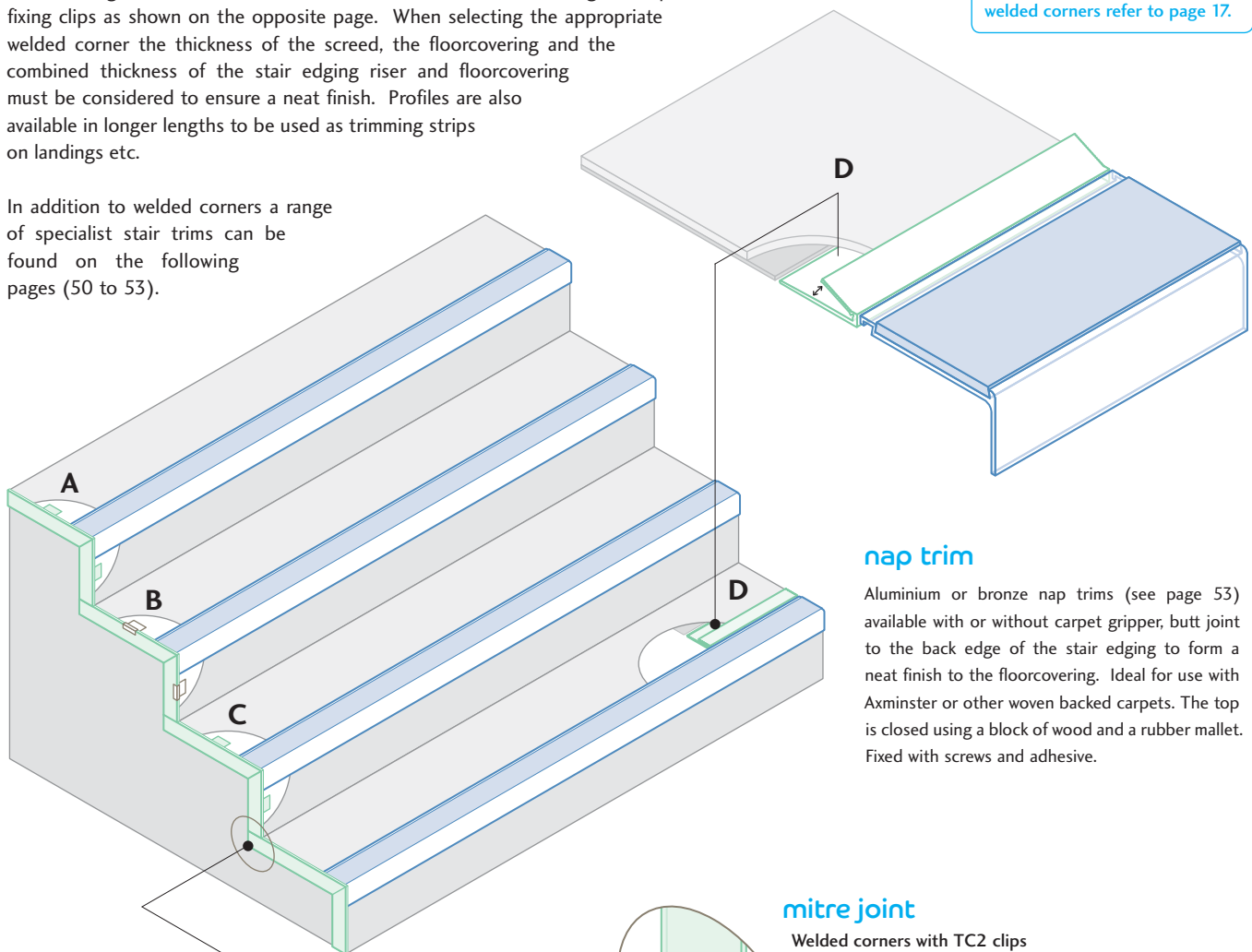
Welded corners are designed to form a neat and attractive edge around the open end of a step by concealing the edge of the floorcovering and stair edging.

Welded corners are supplied pre-welded to suit the angle between the riser and tread of the step (78°- 90°). They are available in a variety of gauges to suit different floorcoverings. Welded corners are available with either a fixed flange or separate fixing clips as shown on the opposite page. When selecting the appropriate welded corner the thickness of the screed, the floorcovering and the combined thickness of the stair edging riser and floorcovering must be considered to ensure a neat finish. Profiles are also available in longer lengths to be used as trimming strips on landings etc.

In addition to welded corners a range of specialist stair trims can be found on the following pages (50 to 53).



XT range
For details on XT side trims and welded corners refer to page 17.



nap trim

Aluminium or bronze nap trims (see page 53) available with or without carpet gripper, butt joint to the back edge of the stair edging to form a neat finish to the floorcovering. Ideal for use with Axminster or other woven backed carpets. The top is closed using a block of wood and a rubber mallet. Fixed with screws and adhesive.

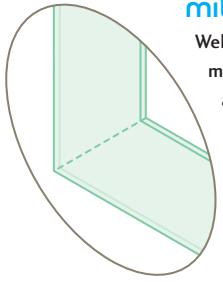
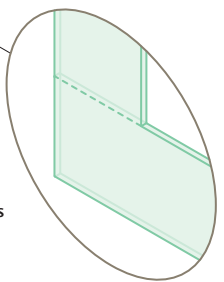
mitre joint

Welded corners with TC2 clips must be mitred. TAC42 should also be mitred.

type of jointing

butt joint

Two adjoining welded corners can be butt jointed for all corners with TC1 clips and fixed tabs.



note

To achieve an optimum finish the angle between each riser and tread should be the same. Remedial work may need to be undertaken prior to installation to achieve this.

3 designs to choose from

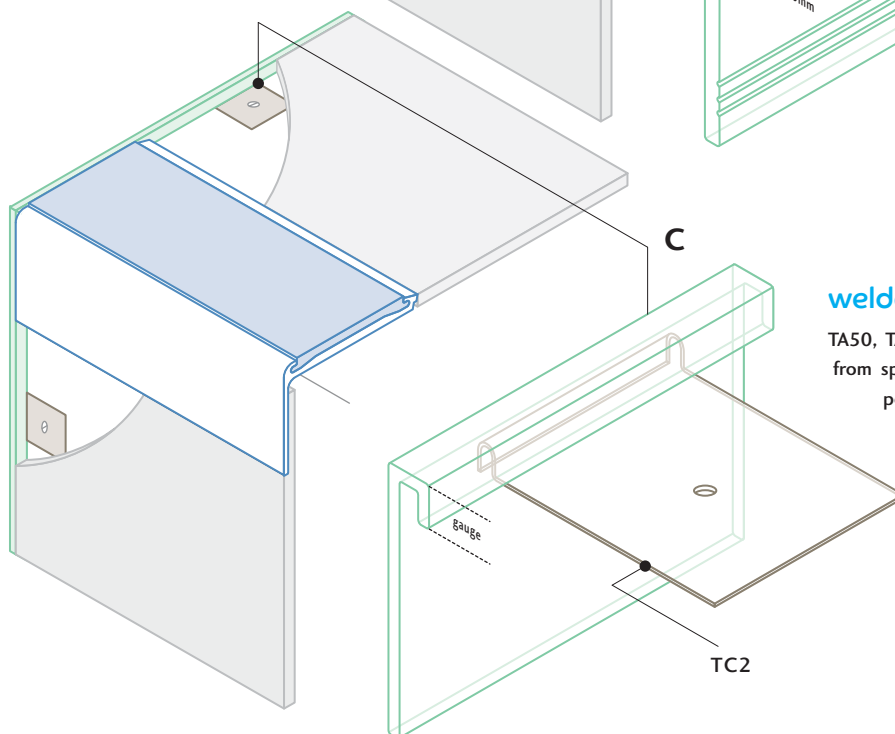
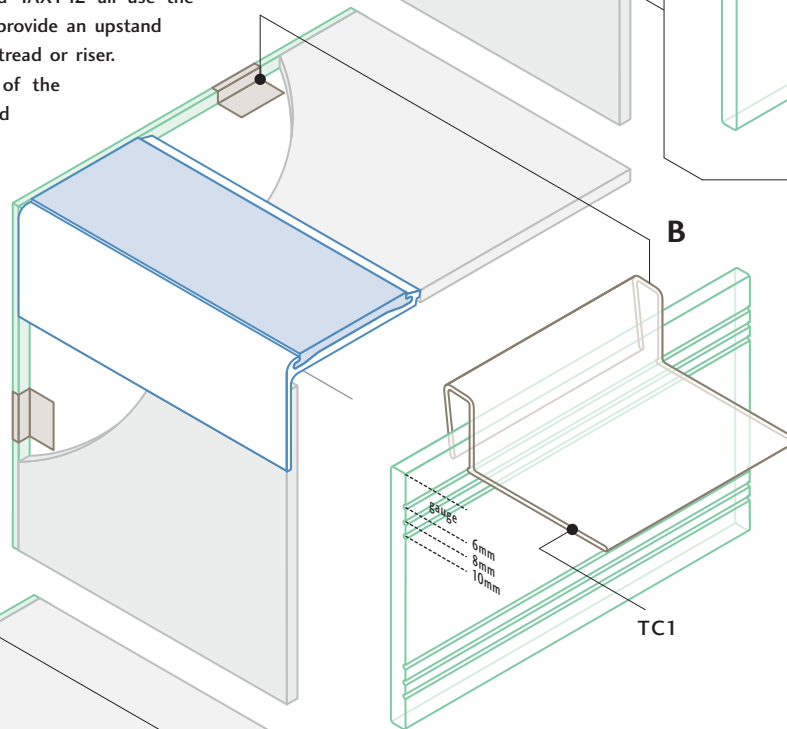
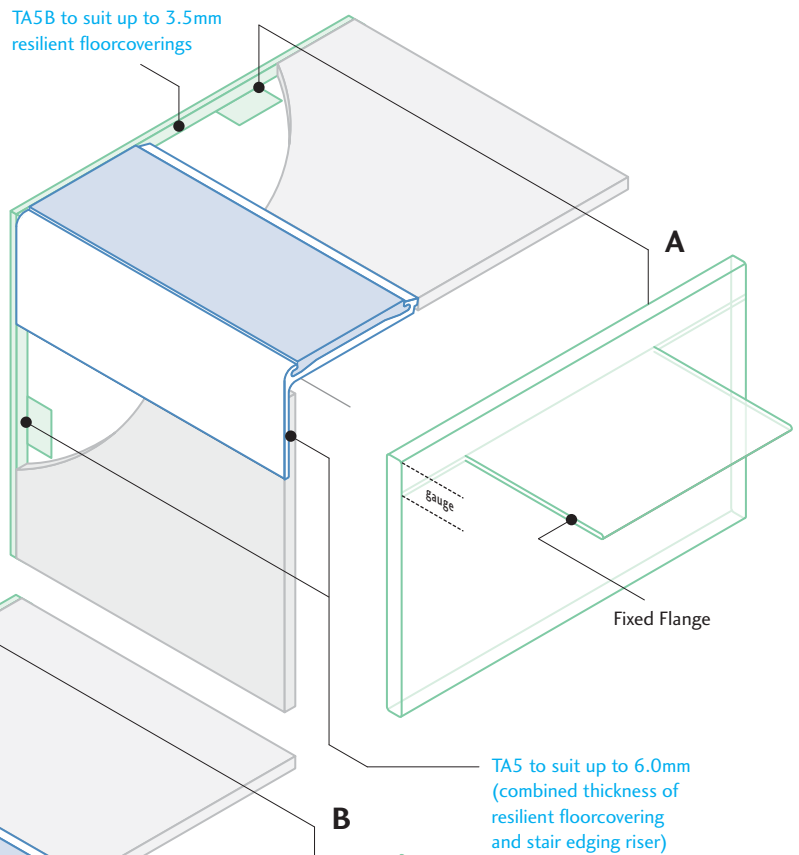
welded corner with fixed flange (page 50)

Welded corners are fabricated using a trimming strip of the correct gauge to suit the thickness of the floorcovering. Different types of trimming strip can be combined on the tread and riser to accommodate the combined thickness of the floorcovering and riser of the stair edging e.g. TA5B (tread)/TA5 (riser). Welded corners are fixed with a proprietary cartridge adhesive. Note: the use of a latex screed to disguise the fixing flange may be required when using vinyl or linoleum.

welded corner with TC1 clips (page 51)

HT42, MT42, TA42, TAC42 and TAXT42 all use the TC1 clip which is adjustable to provide an upstand of 6mm, 8mm or 10mm on the tread or riser.

The clip is positioned in one of the grooves using two clips per tread and one per riser and the side trim is then fixed on with proprietary cartridge adhesive. When this has cured the clip is removed. Different clip positions can be used on the tread and riser to allow for the combined thickness of the floorcovering and riser of the stair edging.

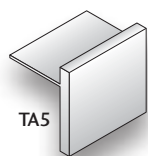


welded corner with TC2 clips (page 51)

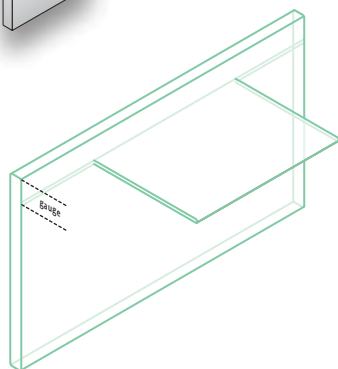
TA50, TA66 and BT42 all use the TC2 clip which is made from spring steel and is used in approximately the same positions as TC1 but is left in position after the proprietary cartridge adhesive cures.

Surveying Service

Gradus Accessories offers a free measuring and templating service to ensure optimum product selection. For further details see page 54. (Terms and conditions apply)

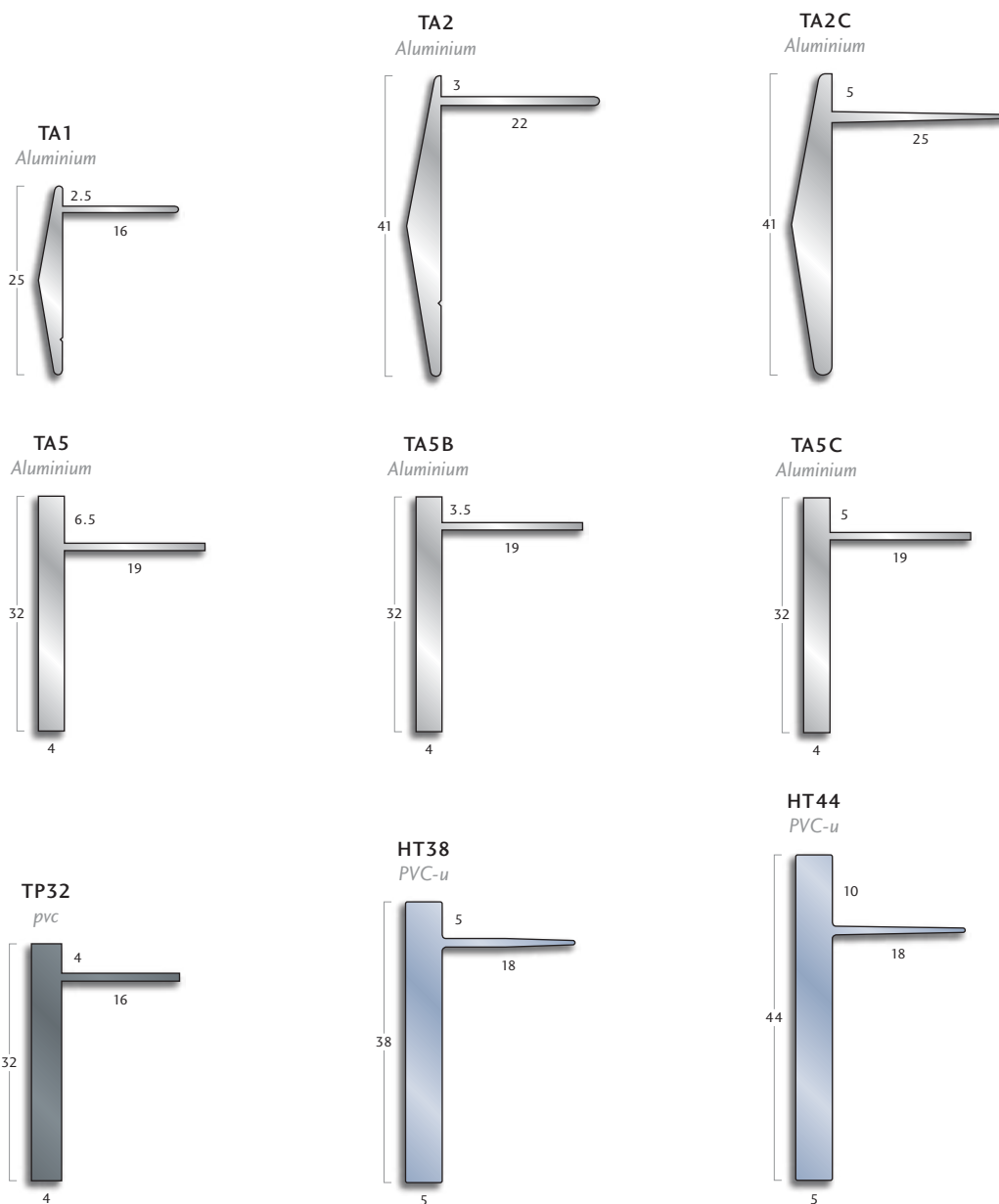


welded corners and trimming strips with fixed flange



Section	Gauge	Stock Lengths	78° - 90° LH or RH	83° & 90° Universal	Fixed Tabs	Site Join
HT38	5mm	2.75m	✓	✓	✓	butt
HT44	10mm	2.75m	✓	✓	✓	butt
TA1	2.5mm	2.75m			✓	
TA2	3mm	2.75m			✓	
TA2C	5mm	2.75m			✓	
TA5	6.5mm	2.75m	✓	✓	✓	butt
TA5B*	3.5mm	2.75m	✓	✓	✓	butt
TA5C	5mm	2.75m	✓		✓	butt
TP32	4mm	2.75m			✓	butt

*TA5B can be supplied as TAXT5B - a pre-formed welded corner with a 10mm radius to complement the curved edge design of the XT stair edging profiles (see page 17).



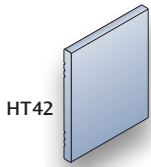
colour availability

Flexible pvc (TP): Black, Brown, Dove, Granite, Snowdrift.

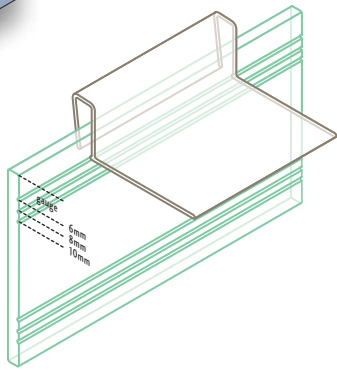
PVC-u (HT): Alpine, Black, Bluebell, Brown, Burgundy, Buttercup, Canvas, Dove, Evergreen, Glacier, Granite, Ink, Lavender, Linen, Midnight, Nutmeg, Sage, Snowdrift, Storm, Veranda.

Metallic PVC-u (MT): Burnt Almond, Doubloon, Silver, Zinc.

For a quick colour reference guide use the back cover foldout. For full details on Colour Availability see page 12.

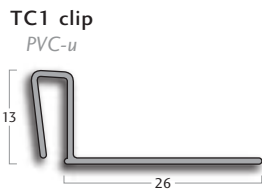


welded corners and trimming strips with TC1 clips

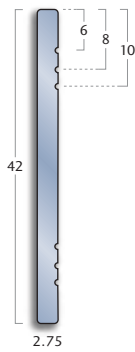


Section	Gauge	Stock Lengths	78° - 90° LH or RH	83° & 90° Universal	Fixing Clips	Site Join
HT42	6-8-10mm	2.75m	✓	✓	TC1	butt
MT42	6-8-10mm	2.75m	✓	✓	TC1	butt
TA42*	6-8-10mm	2.75m	✓	✓	TC1	butt
TAC42	6-8-10mm	2.00m	✓	✓	TC1	mitre

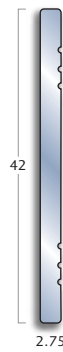
*TA42 can be supplied as TAXT42 - a pre-formed welded corner with a 10mm radius to complement the curved edge design of the XT stair edging profiles (see page 17).



HT42
PVC-u



MT42
PVC-u Metallic



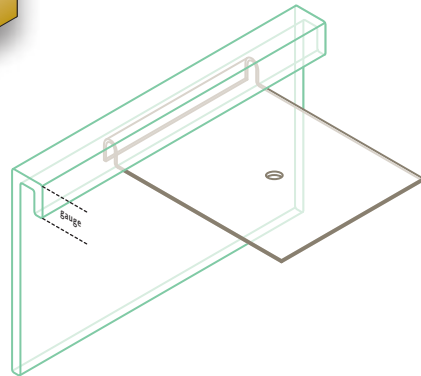
TA42
Aluminium



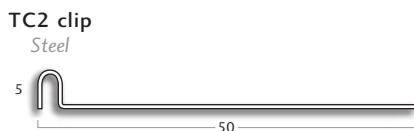
TAC42
Chrome Finish Aluminium



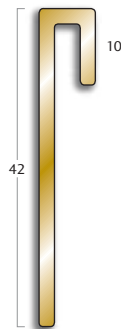
welded corners and trimming strips with TC2 clips



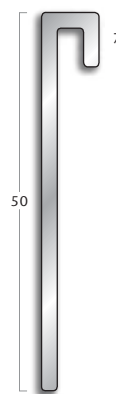
Section	Gauge	Stock Lengths	78° - 90° LH or RH	Fixing Clips	Site Join
BT42	10mm	2.75m	✓	TC2	mitre
TA50	7mm	2.75m	✓	TC2	mitre
TA66	7mm	2.75m	✓	TC2	mitre



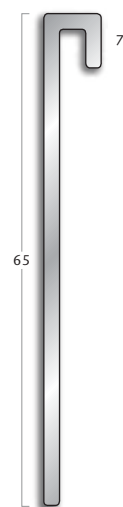
BT42
Bronze



TA50
Aluminium



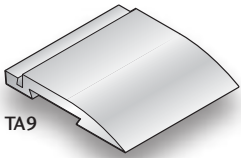
TA66
Aluminium



Profiles: Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

stair trims

edge trim



TA9

TA9 is an aluminium trimming strip used with G range stair edgings to form a safe ramp where resilient or no floorcovering is used.

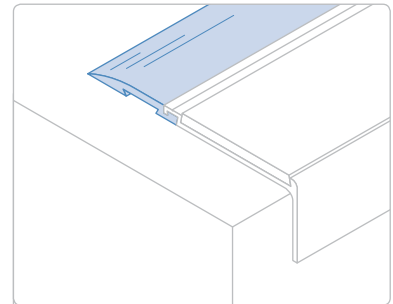
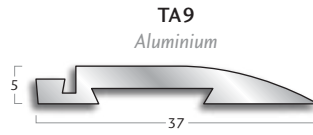


Diagram shows G11 with TA9 ramping strip providing a transition where no floorcovering is used.

TA6 is an aluminium trimming strip used to form a central run of resilient floorcovering on stairs and landings. Can also be used on the riser.

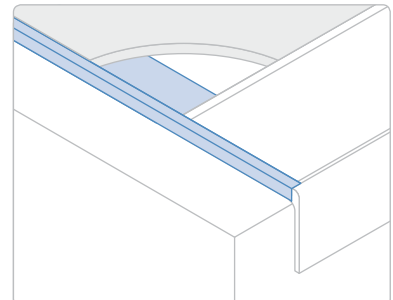
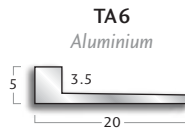
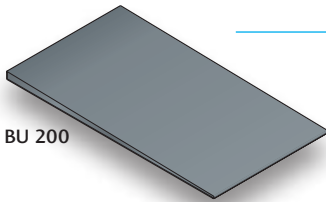


Diagram shows AS11 and TA6 trimming strip with a special on-site fabrication.

bevelled underlay



BU 200

Bevelled underlay is a flexible pvc material used as a diminishing strip and is ideal for building up resilient floorcoverings for use with 5mm stair edgings.

This is an ideal solution where a heavy-duty stair edging is required with a resilient floorcovering.

Grooves along the length of the underlay provide a straight cutting edge at points where the thickness gives ideal height adjustment.

Bevelled underlay is fitted with a proprietary contact adhesive and it is advisable to feather the tapered edge with a thin layer of latex cement.

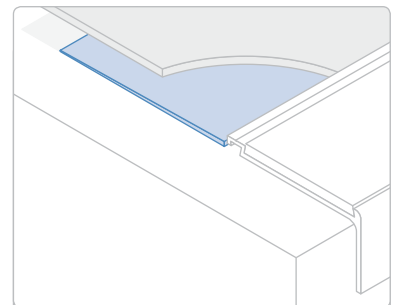
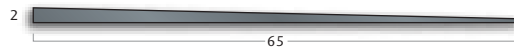
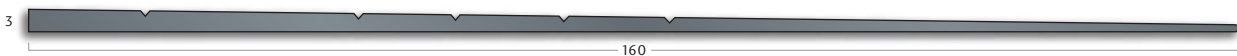


Diagram shows BU200 bevelled underlay being used to build up a 3.2mm linoleum to ensure a flush finish with the back edge of a G11 stair edging (5mm gauge).

BU 200
pvc



BU 800
pvc



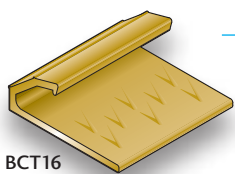
colour availability

BU: Black.

For a quick colour reference guide use the back cover foldout. For full details on Colour Availability see page 12.

Profiles: Dimensions shown are nominal. Illustrations are full size in mm. Products subject to minor design alterations without notice.

nap trim



BCT16

Aluminium or bronze nap trims available with or without carpet gripper. Butt joint to the back edge of the stair edging to form a neat finish to the floorcovering. Ideal for use where an Axminster or other woven backed carpet is used. The top is closed using a block of wood and/or rubber mallet. Fixed with screws and adhesive.

BCT16
Bronze - available with or without carpet gripper

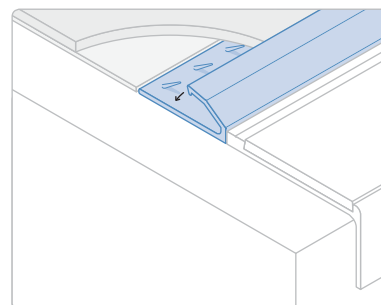
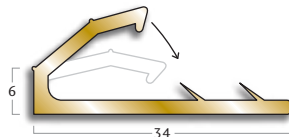


Diagram shows BCT16 butt jointed to the back edge of BG511 (5mm gauge - see page 39) stair edging to provide a neat edge to the carpet.

ANT355
Aluminium - available with or without carpet gripper

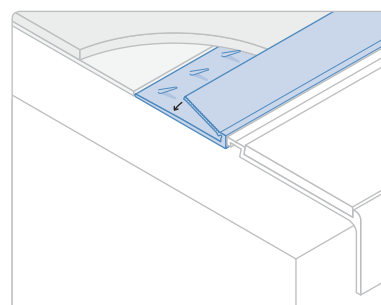
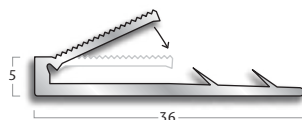


Diagram shows ANT355 butt jointed to the back edge of G11 (5mm gauge - see page 24) stair edging to provide a neat edge to the carpet.



Design Service
see page 171.

CG1042
Aluminium - available with or without carpet gripper

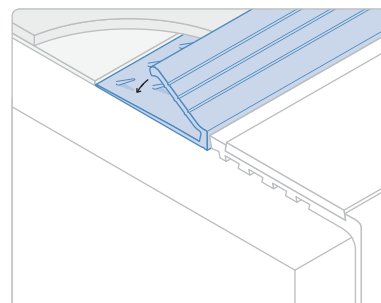
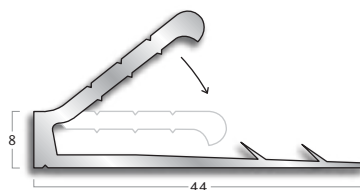
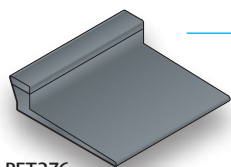


Diagram shows CG1042 butt jointed to the back edge of CT71 (gauge 7mm - see page 29) stair edging to provide a neat edge to the carpet.

square edge



PET276

A co-extruded PVC-u feature strip for use between carpets, resilient floorcoverings and ceramic tiles or to form an edge to a floorcovering (see diagram).

PET276
Co-extruded pvc top with PVC-u base

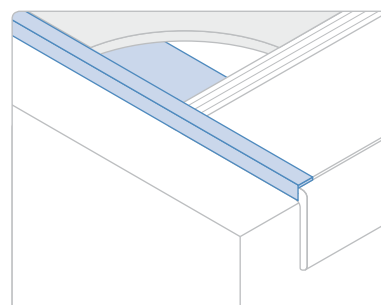
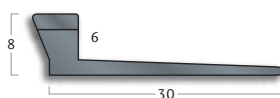


Diagram shows PET276 in conjunction with RN711 with a special on-site fabrication being used to protect the exposed edge of the carpet and form a 'carpet runner'.

colour availability

PET: Black, Brown, Dove, Granite.

For a quick colour reference guide use the back cover foldout.
For full details on Colour Availability see page 12.

measuring & templating

measuring & templating service for stair edgings & welded corners*

In order to ensure that the correct product is chosen to suit requirements (e.g. step profile, traffic conditions, floorcovering), Gradus offers a free on-site measuring and templating service, particularly useful when fabrications are required.

To help Gradus provide the best service, the following guidelines should be used.

1. Measures need an official order from a Gradus distributor or contractor. A contractor's order must nominate a distributor.
2. Measure requests can be faxed, sent to the office (address below) or directly to the relevant Area Manager:

Gradus Limited, Park Green, Macclesfield, Cheshire SK11 7LZ
Tel: 01625 428922
Fax: 01625 433949
3. If more than one staircase is to be measured a location map should be provided or Gradus cannot accept liability for stair edgings missed from the measure details.
4. Wasted journeys will be charged at a minimum of £100. All measure details should be confirmed, including stair readiness and accessibility, prior to the site visit. A further visit will be delayed until the fee has been paid.
5. The measure details will be forwarded to the distributor.
6. Lead times of fabricated items should be checked at time of placing order.
7. Gradus will accept no responsibility if templates or measurements have to be taken over existing floorcoverings or stair edgings, or if stairs have been altered after measurements have been taken.
8. Claims for ill-fitting curves cannot be accepted if the curve has been cut. All curves are supplied oversize for trimming on site. The same applies to stair edgings where welded corners are being fitted. Templates are retained for 12 weeks after despatch of the fabrication. They are then destroyed and no claims can be accepted after this period.
9. Gradus conditions of sale also apply to any measure request.
10. Notification should be given in advance if any security passes are required to gain site access.

* UK mainland only.

fabrications

Special shapes and curves can be manufactured for most stair edgings, stairtile and stair rods. Orders for curving and some fabrications should include a detailed template.

measuring & templating

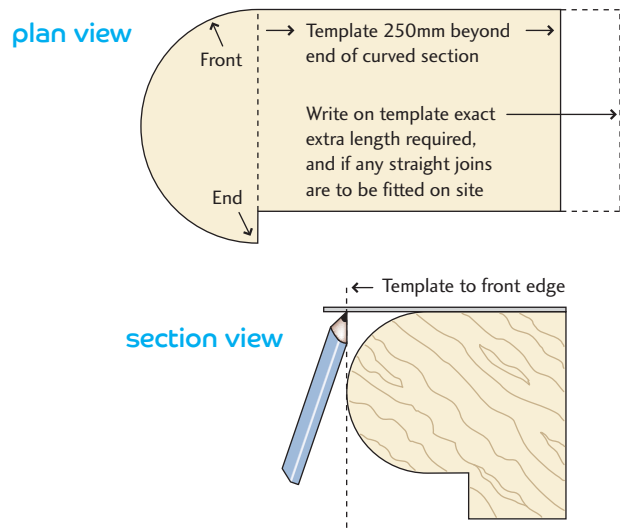
Templates are normally taken using hardboard or good quality paper felts.

Information required on templates:

1. Customer name, address and order number.
2. Type of stair edging and number required.
3. Colour of insert and Hardnose channel if applicable.
4. Drilled or undrilled (and any special requirements).
5. Top clearly marked.
6. Specific join locations (if required) clearly marked.
7. Front edge clearly marked.
8. End clearly marked, or alternatively, extra length required.
9. Thickness of riser material to be fitted with stair edging.

N.B. Curved stair edgings are supplied oversize to have both ends trimmed on site. This also applies where there are joints. When a template is taken that includes a straight length, include at least 250mm on the template to show the correct angle. Joints are often concealed below handrails. The maximum length per curved stair edging section is 2750mm, Stairtile is 2134mm and stair rods is 1830mm. When templating rake-back stair edgings, do confirm that the angle of the rake is constant. Note: claims cannot be accepted for poorly fitted curves after installation or trimming.

Curves are not available in AR7, CA71, CT52, ELA91150, ELA93150, ELA93240, ELA9240, ELB72740, ELR91150, ELR95150, GR91, G54, Allite profiles and nap trims. Curving of all XT and Elite profiles, ramp-back profiles and Stairtile is subject to approval of templates prior to manufacture.



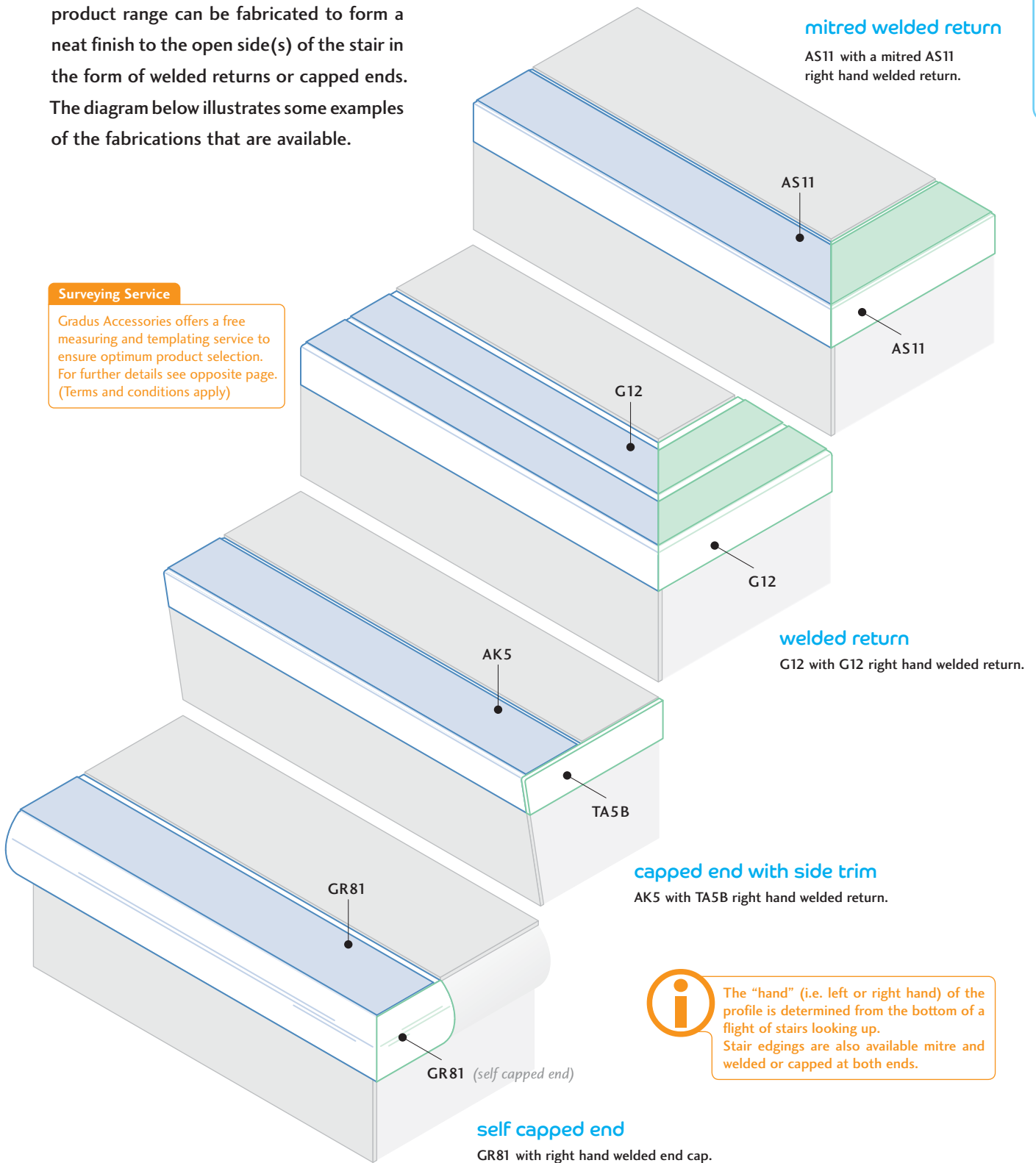
welded returns & capped ends

description

Most stair edgings featured in the Gradus product range can be fabricated to form a neat finish to the open side(s) of the stair in the form of welded returns or capped ends. The diagram below illustrates some examples of the fabrications that are available.

Surveying Service

Gradus Accessories offers a free measuring and templating service to ensure optimum product selection. For further details see opposite page. (Terms and conditions apply)



The "hand" (i.e. left or right hand) of the profile is determined from the bottom of a flight of stairs looking up. Stair edgings are also available mitre and welded or capped at both ends.

selection guide

The table below can be used as a guide to assist with selection of the most appropriate stair edging for a particular application. **It is a guide only.** For a detailed product recommendation refer to page numbers indicated and/or contact Gradus Customer Support on 01625 428922. The compressed thickness of the floorcovering should always be considered to avoid a trip hazard and should be closely matched to the gauge of the stair edging profile. A bevelled underlay can be used to build up the compressed thickness of the floorcovering (see page 52).

Key: ▲ Single channel
● Double channel
■ Multiple channel
— with Bevelled Underlay
E with Exterior Insert

Stair Edging		Floorcoverings									No Floorcoverings						Page	
		Carpet, wood and ceramics. Compressed thickness: 8-10mm			Carpet and smooth flooring (eg. rubber). Compressed thickness: 5-8mm			Carpet (needlepunch, low loop) and resilient flooring (linoleum and vinyl). Compressed thickness: 2-4mm			Interior concrete, terrazzo and marble.			Exterior concrete and stone. Exterior insert must be used in stair edging.				
Range	Gauge in mm	Traffic (H = Heavy Traffic, M = Medium Traffic, L = Light Traffic)																
		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L		
* Aluminium	XT	XT 2mm							●	▲	▲							15
		XT 5mm				●	▲	▲	●	—	—							16
		XT Ramp Back					▲	▲		▲	▲		▲	▲				15
	Traditional	A + ADM + S 2-3.5mm								●	▲	▲						19-22
		A Ramp Back					▲	▲		▲	▲		▲	▲		▲ E	▲ E	19
		G H + ADM + PG 4.5-5mm				●	▲	▲	●	—	—							23-27
		CT 7-9mm	●	▲	▲	●	▲	▲										28-29
	Elite	ELA 3-4mm							●	—	—							30-32
		6mm				●	▲	▲										32-33
		7-10mm	●	▲	▲	●	▲	▲										33
	EAR Ramp Back								▲	▲		▲	▲				31	
	Allite	ALL 5mm										■	■	■	■	■	■	78
		7mm										■	■	■	■	■	■	79
		TE 8-9mm										■	▲		■	▲		77
ALL+TE Ramp Back											■	■	■	■	■	■	77-79	
Bronze	BA 2-2.5mm								●	▲	▲						38	
	BG 5-6mm				●	▲	▲	●	—	—							39	
	ELB 4mm				●	▲	▲	●	—	—							37	
	6mm				●	▲	▲										37	
	Ramp Back					▲	▲		▲	▲		▲	▲		▲ E	▲ E	39	
PVC-u Hardnose (2 finishes)	Satin	RN3 3mm								▲	▲						42	
		RN5 + DDA 4-5mm					●	▲	▲	●	—	—					41-42	
		RN7 + DDA 6-7mm					●	▲	▲									41-42
	RNRC Ramp Back					▲	▲		▲	▲		▲	▲				41	
	ELR	4mm								●	—	—						44-45
		6mm		●	▲	▲	●	▲	▲									45
	Metallic	ELM 4mm								●	—	—						43
6mm						●	▲	▲									43	
PVC	Flexible pvc 2.5-3mm									▲							47	

* All Traditional and Elite aluminium (excluding XT and Allite) stair edgings are available in a chrome finish and are suitable for medium and light traffic areas.

materials

All materials used in Gradus products are of the highest quality and have undergone extensive testing to ensure they are fit for the purpose they are intended. Below can be found the most common materials that make up Gradus Accessories products, as well as details of those material properties. For specific technical information on individual products, consult the information pages for the respective product ranges.

		Channel Material				Insert Material		
		Aluminium	Bronze	PVC-u	Pvc	xtra-grip - new	Interior	Exterior
Composition	Composition	Alloy to BS EN 573-3	Manganese Bronze Alloy to BS EN 12167	Unplasticised Polyvinylchloride (Rigid pvc)	Polyvinylchloride (Flexible pvc) with Natural Mineral Fillers	Polyvinylchloride with Mineral Inclusion and pvc wear layer	Polyvinylchloride (Flexible pvc) with Natural Mineral Fillers	Rubber Composite with Aggregate Fillers
	Finish	Mill or Chrome Finish	Bright Polished	Satin or Metallic	Matt	Matt		
Appearance	Colour	Natural, colour coating available on request	Bright or can be allowed to oxidise to natural colour	Wide range of colours available. See page 12.		Wide range of colours available. See page 13.		
	Fixing	Screws and adhesive			Adhesive only	Traditional: Specialist Adhesives. Elite: Specialist Tape		
Usage	Maintenance	Clean with neutral detergent and green scotch pad	Polish with metal polish and duster	Clean with neutral detergent and green scotch pad	Clean regularly with neutral detergents	Clean regularly with neutral detergents, avoid any build-up of dirt/grease		
	Biological	Not affected by insects or vermin. Will not support organic plant growth.						
Resistance	Visual	Unaffected by sunlight		Colours may fade slightly after prolonged exposure to ultra-violet light				
	Wear	Extremely durable average life: 10-15 years		Hardwearing average life: 10 years	Light traffic	Extremely durable average life: 10-15 years	Hardwearing average life: 10 years	Extremely durable average life: 10-15 years
		All Gradus inserts achieve wear classifications* of: Group T - Class 34 - Commercial Very Heavy Group T - Class 43 - Light Industrial Heavy						
	Chemical	Will discolour with acid and corrode with mercury	Unaffected by most chemicals in everyday use	May discolour with strong detergents. Acetone and solvents will cause damage				
	Thermal	All products will expand and contract with variations in temperature. For installation of pvc products in very high/very low ambient temperatures or dramatically fluctuating temperatures, contact Gradus Technical Services for advice.						
	Frictional	Affected by water and reduced by contact with oil and grease. Xtra-Grip inserts are available for use in traditional channels for interior use in areas subject to wet conditions. Interior pvc inserts are not suitable for areas subject to wet conditions. Exterior inserts are available for use in traditional channels for exterior use.						
	Electrical	Conductive		Non-conductive			Non-conductive	

* Exterior and interior (standard, grained, elite) tested to BS EN 660-2:1999 and assessed against the requirements of BS EN 649:1997
Xtra-Grip tested to BS EN 13845:2005 - 50,000 cycles

