

# Boulevard™ 6000



## Zones 3 & 4

### Interior Circulation Areas, Some Interior Entrances & Access Points and Other Areas

A tufted cut pile high performance barrier carpet incorporating a heavy scraper fibre for optimum dirt removal and excellent moisture retention properties in the most demanding environments.

Barrier carpet provides an effective solution to reducing maintenance costs on surrounding floorcoverings and helps minimise the risk of slip on hard floor finishes. It can also, when maintained correctly, help protect the appearance of surrounding floorcoverings throughout their life.

Often used in conjunction with a primary entrance mat and in some situations can be used as stand-alone matting in entrances and access points. It is also ideal for use in all areas of a building, particularly those at greatest risk of damage from tracked through soil and moisture e.g. Reception areas, staircases, lifts, canteen areas, service points etc.

Designed to complement Esplanade Plus and Access primary barrier matting.



500mm x 500mm View

Warranties:	Sheet	Tile
Wear	10 Years	10 Years

Specification:	Sheet	Tile
Product Dimensions	25m x 2m	500mm x 500mm
Product Construction	Tufted Cut Pile	
Surface Yarn	100% Aquafil Alto Chroma SDN	
Backing	PVC	Bitumen
Total Weight	4470 g/m <sup>2</sup>	4768 g/m <sup>2</sup>
Total Thickness	8mm	9mm
Pile Height	5mm	5mm

Performance Specification	
Classification BSEN 1307	Class 3
Static Electricity ISO 6356	<2kV
Thermal Resistance BS 4745: 1990	1.3 (TOG)

Flammability	
BSEN 13501-1	Class Cfl-s1

For recommended adhesives contact Technical Services on 01625 428922.



#### BRE Global (BREEAM):

This carpet has been awarded a green guide rating under the BRE Global environmental profile scheme. For full information on ratings visit [www.greenbooklive.com](http://www.greenbooklive.com)



#### Samples

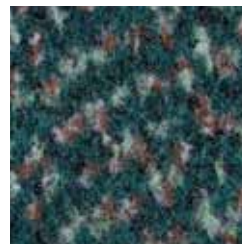
An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.



Shadow  
LRV 5.36



Walnut  
LRV 2.86



Rosemary  
LRV 4.45



Galaxy  
LRV 2.56



Indigo  
LRV 4.01



Atlantic  
LRV 1.90



Nickel  
LRV 3.70



Nightfall  
LRV 1.48

# Boulevard™ 5000<sup>HD</sup>



## Zones 3 & 4

### Interior Circulation Areas, Some Interior Entrances & Access Points and Other Areas

A tufted cut pile high performance barrier carpet incorporating a light scraper fibre for optimum dirt removal and excellent moisture retention properties in most contract environments.

Barrier carpet provides an effective solution to reducing maintenance costs on surrounding floorcoverings and helps minimise the risk of slip on hard floor finishes. It can also, when maintained correctly, help protect the appearance of surrounding floorcoverings throughout their life.

Often used in conjunction with a primary entrance mat and in some situations can be used as stand-alone matting in entrance and access points. It is also ideal for use in any area of a building prone to soil and moisture damage such as staircases, lifts, canteen areas or in areas of heavy wear such as reception areas or corridors.

Designed to complement Esplanade Plus and Access primary barrier matting.

Warranties:	Sheet
Wear	5 Years

Specification:	Sheet
Product Dimensions	25m x 2m
Product Construction	Tufted Cut Pile
Surface Yarn	100% Aquafil Alto Chroma SDN
Backing	PVC
Total Weight	4300 g/m <sup>2</sup>
Total Thickness	7.5mm
Pile Height	5mm

Performance Specification	
Classification BSEN 1307	Class 3
Static Electricity ISO 6356	<2kV

Flammability	
BSEN 13501-1	Class Cfl-s1

For recommended adhesives contact Technical Services on 01625 428922.



#### Samples

An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.



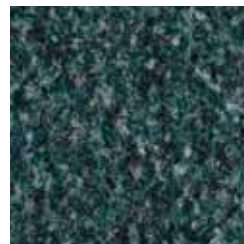
500mm x 500mm View



Corncrake  
LRV 9.52



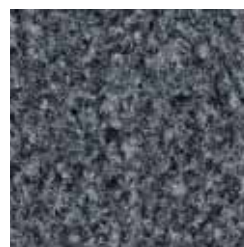
Kestrel  
LRV 5.42



Shelduck  
LRV 5.20



Redpoll  
LRV 4.14



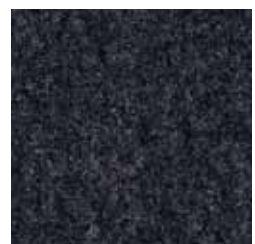
Cuckoo  
LRV 5.63



Swallow  
LRV 2.08



Moorhen  
LRV 2.98



Jackdaw  
LRV 1.73

# Boulevard™ 1500



## Zones 3 & 4

### Interior Circulation Areas, Some Interior Entrances & Access Points and Other Areas

A cost effective barrier matting that is easy to install and maintain. Its ribbed design is resistant to compression and offers a superior alternative to coir matting, in line with the guidance in BS8300:2009+A1:2010 and Approved Document M of The Building Regulations 2000.

Barrier carpet provides an effective solution to reducing maintenance costs on surrounding floorcoverings and helps minimise the risk of slip on hard floor finishes. It can also, when maintained correctly, help protect the appearance of surrounding floorcoverings throughout their life. Boulevard 1500 is often used in conjunction with a primary entrance mat and in some situations can be used as a stand alone matting in entrances and access points.

Designed to complement Esplanade 1500 primary barrier matting.

Specification:	Sheet
Product Dimensions	15m x 2m
Product Construction	Needlepunch
Surface Yarn	100% Polypropylene
Backing	Rubber
Total Weight	3000 g/m <sup>2</sup>
Total Thickness	9mm

Flammability	
Hot Metal Nut Test BS4790	Pass, Low Radius of Effects of Ignition

For recommended adhesives contact Technical Services on 01625 428922.

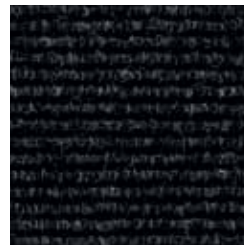


#### Samples

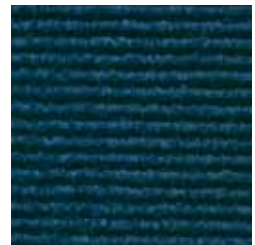
An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.



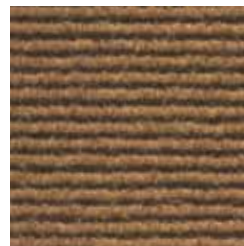
500mm x 500mm View



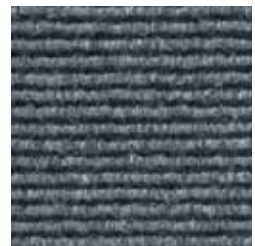
Tempestas  
LRV 2.14



Marinus  
LRV 2.71



Terra  
LRV 10.89



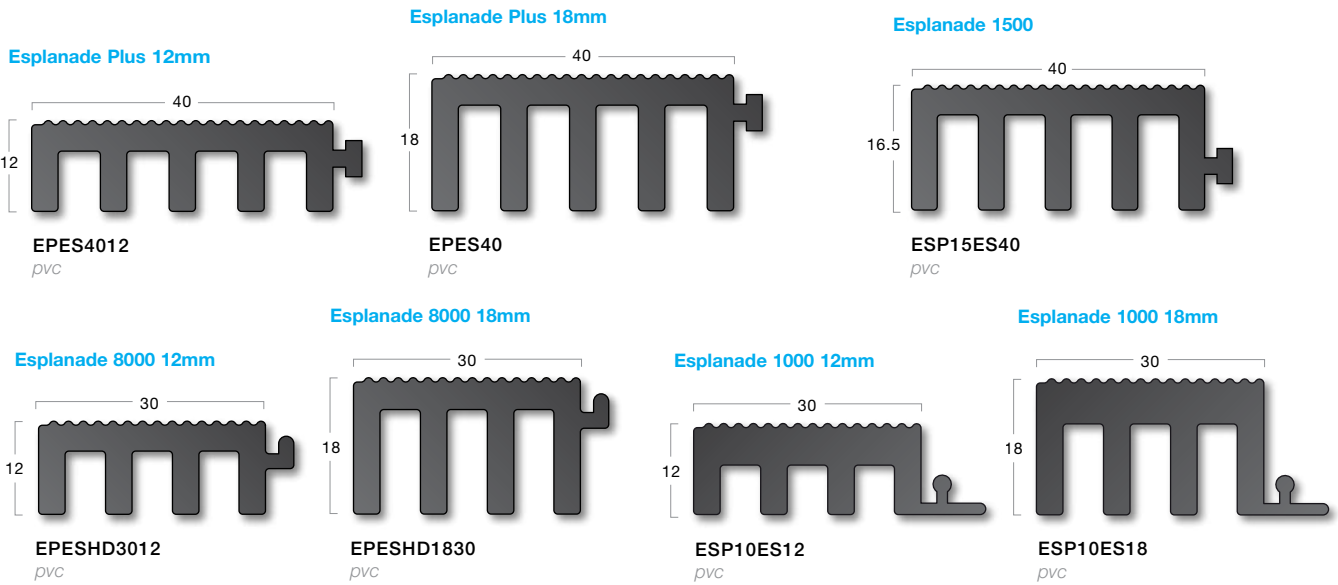
Calculus  
LRV 9.03

# Installation Accessories



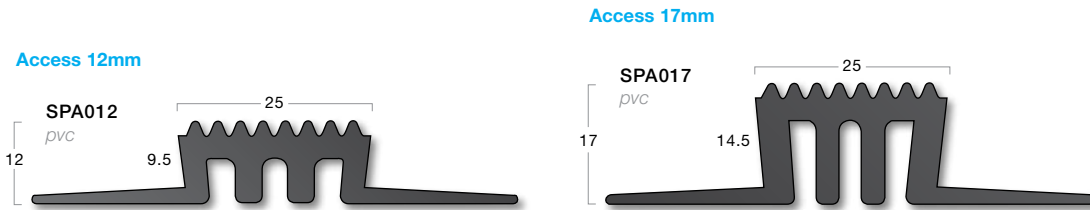
## Edging Strips

Edging strips are used for on-site trimming and to provide a neat finish at the raw edge of the mat. Edging strips are supplied with each order.



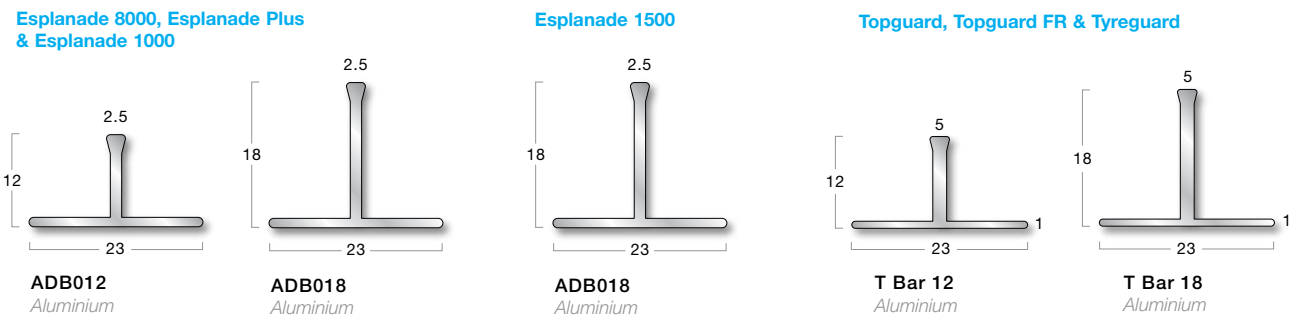
## Spacer Strips

Spacer strips allow for minor movement within the mat and provide a neat finish at the raw edge of the mat. Spacer strips are supplied with each order.



## Divider Bars

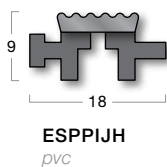
Divider bars are used to achieve symmetrical design on mats exceeding two metres in width and are loose laid in line with the direction of traffic. Divider bars are supplied with each order.



## Push-in Hinge

Push-in hinges are used when installing Esplanade Plus in restricted areas. Push-in hinges are supplied with each order.

### Esplanade Plus 12mm & 18mm



### Profiles:

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

# Matting Accessories



## Matwell Frames

Gradus offers a wide selection of matting accessories to ensure ease of installation.

Matwell frames and ramping strips provide a smooth and safe transition between a barrier mat and the adjoining floorcovering. This protects the edge of the mat from damage and prevents trip accidents caused by uneven flooring.

A choice of gauges is available to accommodate mat thicknesses of 12mm (recessed and surface-mounted), 18mm and 25mm (recessed only).

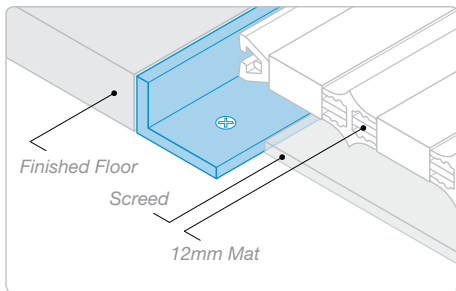
Matwell frames and ramping strips are offered either in stock lengths or as made-to-measure kits for individual mat specifications. Gradus' curving and fabrication capability allows for most mat shapes to be accommodated.

## Recessed Matting

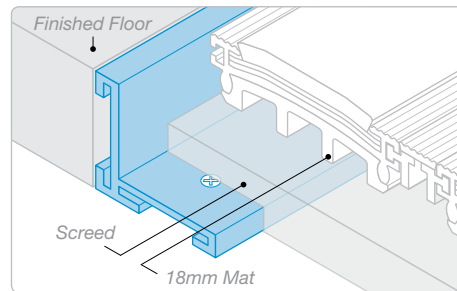
A recessed mat is installed into a matwell that has been set into an existing floor finish and fits flush with the surrounding floorcoverings. Matwell frames are used to protect and strengthen the matwell, protect the exposed edge of the floorcovering and provide safe transition to the surrounding area.

The base of the matwell is screeded to suit the required height of the mat and to provide a flat, sound surface (see Figures 1 & 2).

**Note:** Care must be taken when installing a mat to allow for door clearance.



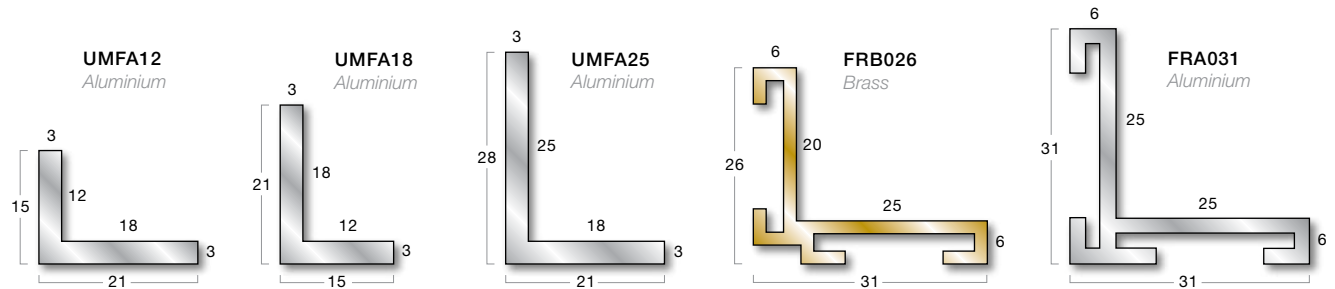
**Figure 1**  
Example shows UMFA12 laid to accommodate a 12mm Gradus Topguard primary barrier mat.



**Figure 2**  
Example shows FRA031 laid to accommodate an 18mm Gradus Esplanade Plus primary barrier mat.

## Recessed Frames

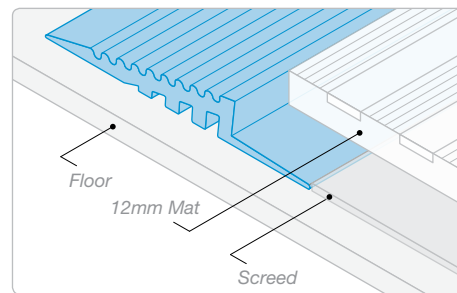
For use with Esplanade 8000, Esplanade Plus, Esplanade 1500, Esplanade 1000, Topguard, Topguard FR, Tyreguard and Access matting.



## Surface-Mounted Matting

A surface-mounted mat is loose-laid to a finished floor and sits proud of the surrounding floorcoverings. Ramping strips are provided to form a safe transition between the mat and the adjoining floor (see Figure 3).

**Note:** This type of installation should be avoided in areas subject to heavy trolley traffic. Care must be taken when installing a mat to allow for door clearance.



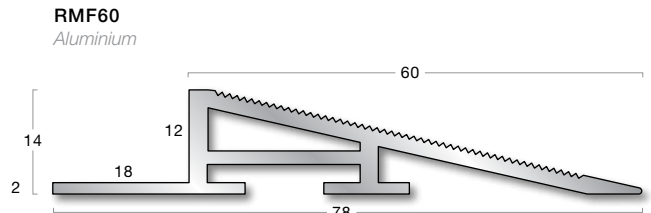
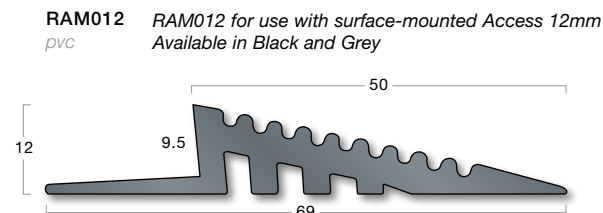
**Figure 3**  
RAM012 laid to accommodate a 12mm Gradus Access primary barrier mat.

## Ramping Frame

Creates a surface matwell. Mat is loose-laid on top of the floor.

**Note:** Ramping frames cannot be curved.

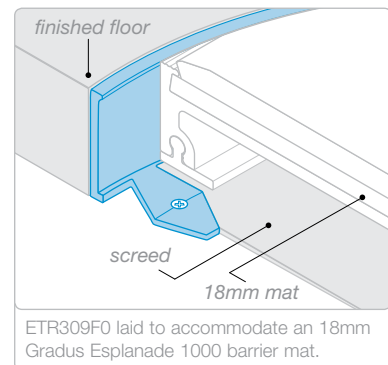
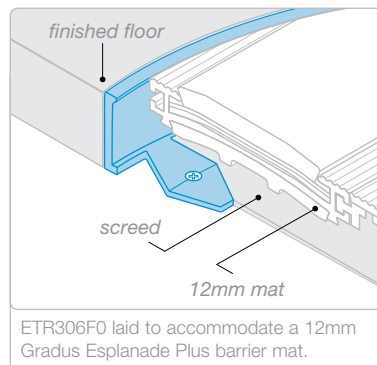
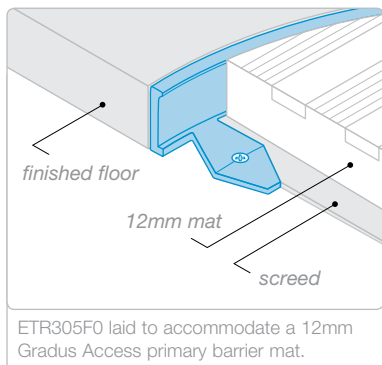
**Profiles:**  
Dimensions shown are nominal. Illustrations are full size in mm.  
Products subject to minor design alterations without notice.




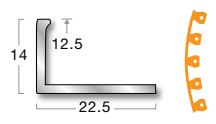
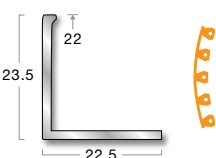
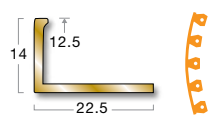
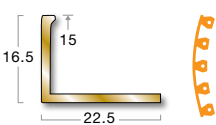
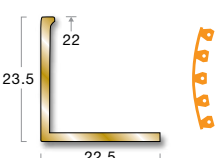
# Matwell Frames

## Formable Frames

ETR trims allow design flexibility where a formed matwell frame is required. ETR trims are available in aluminium and brass and are suitable for use with the majority of Gradus primary barrier matting.



**Key**  Supplied pre-punched with tabs and fixing holes for on-site curving.

CODE / PROFILE	MATERIAL	LENGTH	COLOURS / FINISHES
<b>ETR305F0</b> 	Aluminium	2.50m	● F0 Natural
<b>ETR306F0</b> 	Aluminium	2.50m	● F0 Natural
<b>ETR309F0</b> 	Aluminium	2.50m	● F0 Natural
<b>ETR305F7</b> 	Brass	2.50m	● F7 Polished
<b>ETR306F7</b> 	Brass	2.50m	● F7 Polished
<b>ETR309F7</b> 	Brass	2.50m	● F7 Polished

Dimensions shown are nominal. Illustrations are 70% size in mm. Products subject to minor design alterations without notice.

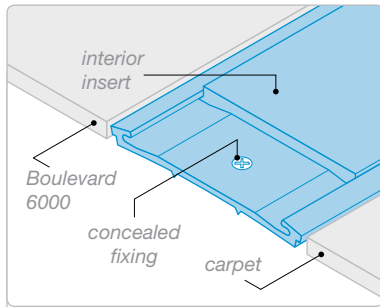
Brass ETR trims are subject to minimum order and lead times. Contact Technical Support on 01625 428922 for details.

## Transition Profiles

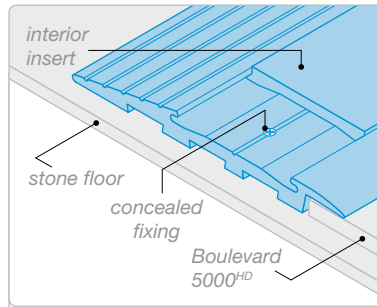
### Trans-Edge®

Trans-Edge carpet trims provide a safe transition between Boulevard secondary barrier carpet and floorcoverings of the same or different heights. For use in the most demanding environments, where frequent heavy foot and trolley traffic can be expected eg. railway stations, airports, transport interchanges, department stores and hospitals.

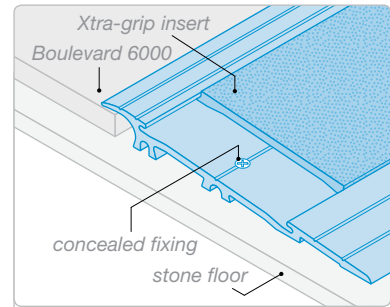
Trans-Edge trims comprise an aluminium base channel with a choice of slip-resistant Elite inserts. Standard interior insert is available for interior dry conditions. Xtra-grip insert is available for interior areas that are at risk of becoming wet and therefore pose a higher risk of slip. For further details visit [www.gradusworld.com](http://www.gradusworld.com)



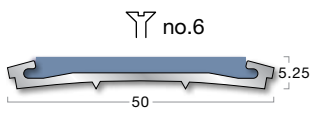
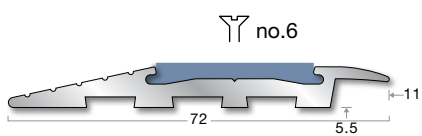
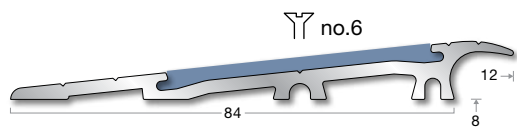
Typical example: ELACS5040 Boulevard 6000 barrier carpet to carpet.



Typical example: ELAR830 stone floor to Boulevard 5000<sup>HD</sup> barrier carpet.



Typical example: ELAR950 stone floor to Boulevard 6000 barrier carpet.

CODE / PROFILE	MATERIAL	LENGTH	COLOURS / FINISHES
<b>ELACS5040</b>  	Aluminium  PVC-u insert (ELINS40)	2.50m  Insert: 25m coil	Available in a choice of 17 interior insert colours. Visit <a href="http://www.gradusworld.com">www.gradusworld.com</a> for further details
<b>ELAR830</b>  	Aluminium  PVC-u insert (ELINS30 or ELINSXG30)	2.50m  Inserts: 15m coils	Available in a choice of 4 Xtra-grip and 5 interior insert colours. Visit <a href="http://www.gradusworld.com">www.gradusworld.com</a> for further details
<b>ELAR950</b>  	Aluminium  PVC-u insert (ELINS50 or ELINSXG50)	2.50m  ELINS50: 25m coil ELINSXG50: 15m coil	Available in a choice of 4 Xtra-grip and 17 interior insert colours. Visit <a href="http://www.gradusworld.com">www.gradusworld.com</a> for further details

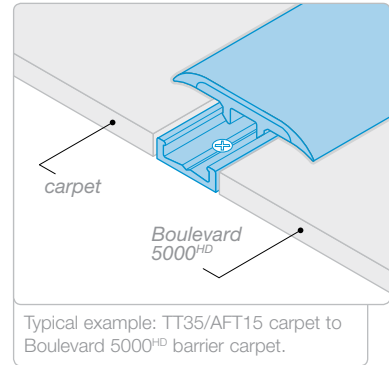
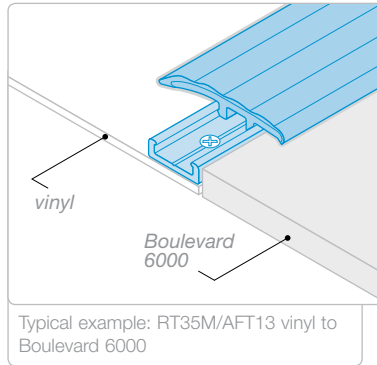
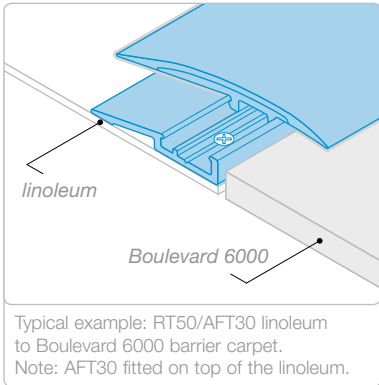
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# Transition Profiles

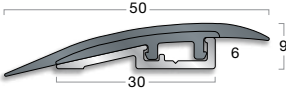
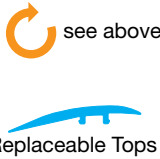
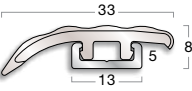

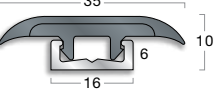

## Clip-Top™

Clip-Top trims provide a neat, safe transition between Boulevard secondary barrier carpet and floorcoverings of the same or different heights. This two-piece product comprises PVC-u tops, which can be replaced so that the colour can be altered as part of a refurbishment programme, or if a worn or damaged section needs to be changed, without renewing the base or disrupting the fitted floorcovering.

Available in a choice of colours to suit most interior design schemes. A selection of Clip-Top products are shown below. For more information visit [www.gradusworld.com](http://www.gradusworld.com)



A number of PVC-u/metallic PVC-u tops and aluminium bases can be factory fabricated to a radius shape, subject to approval of template or detailed drawing (showing radius details), by the Technical Department

CODE / PROFILE	MATERIAL	LENGTH	COLOURS / FINISHES
<b>RT50 / AFT30</b> Registered Community Design Application No 001201941  	PVC-u Top Aluminium Base	2.50m	<ul style="list-style-type: none"> <li>● Black</li> <li>● Brown</li> <li>● Granite</li> <li>● Bluebell</li> <li>● Dove</li> <li>● Clay</li> </ul>
<b>RT35M / AFT13</b>  	Metallic PVC-u Top Aluminium Base	2.50m	<ul style="list-style-type: none"> <li>● Burnt Almond</li> <li>● Zinc</li> <li>● Doubleloon</li> <li>● Platinum</li> <li>● Silver</li> </ul>
<b>TT35 / AFT15</b> Registered Community Design Application No 001201941  	PVC-u Top Aluminium Base	2.50m	<ul style="list-style-type: none"> <li>● Black</li> <li>● Brown</li> <li>● Granite</li> <li>● Bluebell</li> <li>● Dove</li> <li>● Clay</li> </ul>

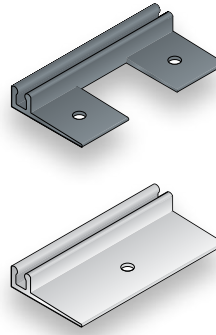
Dimensions shown are nominal. Illustrations are 70% size in mm. Products subject to minor design alterations without notice.

## Transition Profiles

### Clip-Top fx®

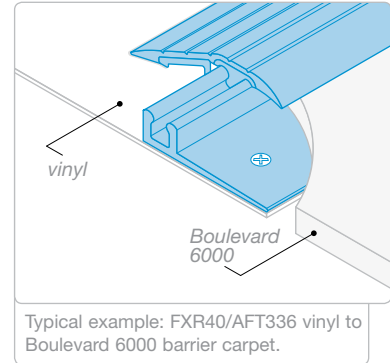
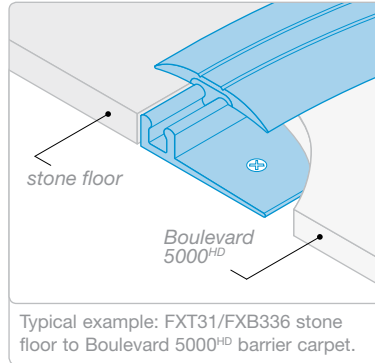
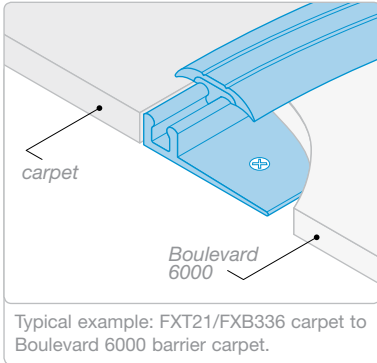
Clip-Top fx trims provide a neat, safe transition between Boulevard secondary barrier carpet and floorcoverings of the same or different heights. This two-piece product comprises PVC-u tops and a choice of bases: PVC-u for curves and aluminium for straights. The product can be easily formed on-site without the need for heat application, reducing the requirements for pre-fabricated curves. The tops can be replaced so that the colour can be altered as part of a refurbishment programme, or if a worn or damaged section needs to be changed, without renewing the base or disrupting the fitted floorcovering.

Available in a choice of 6 colours to suit most interior design schemes. For more information visit [www.gradusworld.com](http://www.gradusworld.com)



PVC-u bases are pre-punched with tabs and fixing holes for on-site curving. Latex screed should be used with resilient floorcoverings to prevent pre-punched base shadowing through.

Aluminium bases have a solid flange for straight lengths.



Can be easily formed on site without the need for heat application when used with PVC-u bases. See individual profiles for curving radii.



Clip-Top fx PVC-u bases contain up to 100% recycled content.

CODE / PROFILE	MATERIAL	LENGTH	COLOURS / FINISHES
<b>FXT21 / FXB336</b> 	400mm min curve on-site Replaceable Tops	PVC-u Top PVC-u Base 2.50m	<ul style="list-style-type: none"> <li>● Black</li> <li>● Brown</li> <li>● Granite</li> <li>● Bluebell</li> <li>● Dove</li> <li>● Clay</li> </ul>
<b>FXT31 / FXB336</b> 	400mm min curve on-site Replaceable Tops	PVC-u Top PVC-u Base 2.50m	<ul style="list-style-type: none"> <li>● Black</li> <li>● Brown</li> <li>● Granite</li> <li>● Bluebell</li> <li>● Dove</li> <li>● Clay</li> </ul>
<b>FXR40 / AFT336</b> 	Replaceable Tops	PVC-u Top Aluminium Base 2.50m	<ul style="list-style-type: none"> <li>● Black</li> <li>● Brown</li> <li>● Granite</li> <li>● Bluebell</li> <li>● Dove</li> <li>● Clay</li> </ul>

Dimensions shown are nominal. Illustrations are 70% size in mm. Products subject to minor design alterations without notice.

# Manufacturing



- **All Gradus barrier matting systems are manufactured to the highest standards using only the best materials available**
- **Meet the requirements of the application for which they are intended**
- **Extensively tested to give superior performance throughout their life**
- **Dedicated manufacturing facility allows flexibility and the ability to respond to customer needs, ensuring the right product is delivered every time**
- **Manufactured to ISO 9001, all Gradus products are supported by the dedicated technical support service**
- **Most products can be pre-shaped in the factory (subject to approval of a suitable template) and delivered for an 'easy fit' on-site**

## 5 Day Manufacturing Service

Available for Esplanade 8000, Esplanade Plus, Esplanade 1500, Esplanade 1000, Topguard, Tyreguard & Access on all orders up to 20m<sup>2</sup>

Please note the following exclusions/conditions apply:

1. 5 day matting service refers to the production time for manufacture i.e. goods will be available for despatch within 5 working days  
2. 5 day lead time applies upon receipt of purchase order and all information required to commence manufacture 3. Delivery times vary and in some circumstances will incur a charge 4. Excludes shaped and/or logo mats 5. 5 day manufacturing lead time is subject to stock availability



# Project Management & Installation



- **Gradus offers a complete supply and fit package, ensuring a convenient and reliable service throughout the specification, survey and installation process**
- **Specially trained specification consultants can provide face to face advice when specifying matting, ensuring that the product selected is matched to the exact requirements of the building**
- **All types of installation, including the most complex shapes and fabrications, can be undertaken by expert installation teams**
- **Covers all aspects of the installation including matwell repair, matwell formation and extension, templating, shaping on-site, installation and handover**
- **Gradus Contracts manages the entire process to tailor the order to specific customer requirements**
- **To take advantage of the Supply and Fit Service, contact Gradus' specification consultants who will undertake an evaluation of the requirements from which a detailed quotation can be prepared. Details of specification consultants are available from Technical Support on 01625 428922 (UK & Eire only)**

# Cleaning & Maintenance Guidelines



A planned cleaning and maintenance programme is crucial to help maintain the performance and visual appearance of Gradus barrier matting and to maximise the lifespan of the product. Trained cleaning staff or a reputable contract cleaner should be used.

## Daily Cleaning

Sweep and vacuum daily to remove surface soil using a heavy duty upright vacuum cleaner with a brush or tub vacuum cleaner with a power head. Inspect for chewing gum and remove as necessary (see [chewing gum removal](#) for more information).

If the matting is wet, the area should be vacuumed using a wet pick up machine to remove as much water / soil as possible.

## Deep Cleaning

To maintain a good visible standard, the matting will require deep cleaning on a weekly / monthly / as required basis (depending on weather conditions and volume of traffic). Deep cleaning can be carried out using various methods, depending on equipment availability.

**In all cases, deep cleaning must follow brushing and vacuuming. Attention must be given to stains by using a pre-treatment of carpet spot and stain remover and chewing gum remover if required.**

- A) Preferred Method: The use of a conventional jet extraction machine, using a conventional floor tool, scrubbing the carpet and continuing to extract as much water as possible. This method leaves the carpet as dry as possible.
- B) Deep Soiled Matting: As with all other maintenance methods, always prepare the carpet by vacuum cleaning prior to treatment. The cleaning professional may consider a combination of a rotary scrubbing machine fitted with a carpet brush and extraction equipment to get improved results.

## Recommended Cleaning Products

Gradus has worked with Selden Research to undertake extensive testing on Gradus barrier matting products. As a result, a range of cleaning products has been recommended for use with Gradus matting.

## Chewing Gum Removal

Chewing gum can be removed by freeze spraying or by applying a suitable chewing gum remover. Lightly spray onto the affected area and allow the product to freeze the gum. Scrape off with a blunt object such as a spatula.

For further information about these cleaning products, including instructions for use and COSHH data sheets, please contact:

Selden Research Limited, Staden Business Park, Staden Lane, Buxton, Derbyshire, SK17 9RZ.

Tel: 01298 26226 Email: [gradus@selden.co.uk](mailto:gradus@selden.co.uk) Website: [www.selden.co.uk](http://www.selden.co.uk)

# RIBA CPD Seminars



**A full range of RIBA assessed CPD seminars available covering specification, legislation, safety, performance and aesthetics.**



**We have a new RIBA Approved CPD seminar –  
The Specification & Design Considerations of Barrier Matting Systems.**

**visit: [www.gradusworld.com](http://www.gradusworld.com)**

# Specification Guidelines

## Factors to consider when specifying a mat



Ensuring the safety of visitors and staff at a building entrance is critical in making a positive first impression.

To help prevent slip, trip and fall accidents, the entrance flooring should not present a hazard to the user in normal use and should not become slippery when wet. With the main source of wet contamination at entrances being water carried on footwear and tyres of wheeled traffic, a suitable entrance matting system is vital in removing and retaining moisture to stop it being transferred to internal floorcoverings.

A study of pedestrian flow rates at entrances has recently been undertaken by the Health & Safety Laboratory (HSL) and the Entrance Flooring Systems Association (EFSA), simulating the use of entrance matting to quantify water removal using a laboratory test method developed by EFSA. The findings showed six main points should be considered when choosing an entrance matting system.

### Peak Flow Rate

Also known as 'volume of traffic', the peak flow rate predicts the concentration of traffic and identifies the key times of day when people enter or exit the building.

#### Example 1: School

- Two main times of day when a heavy concentration of traffic enter or exit the building
- Specification - heavy duty mat to cope with a high flow rate

#### Example 2: High Street Shop

- Consistent flow of traffic
- Specification - barrier carpet used in conjunction with a primary mat to increase moisture removal



The provision of overhead heaters can also help with the evaporation of moisture to speed up the drying time of the mat.

### Width of Matting

Matting should cover the entire entrance of a building, including any side entrances.

As the first point of contact and, therefore, the first opportunity to stop dirt and moisture being tracked into any building, traffic should not be able to avoid the entrance matting.

In some instances certain entrances are favoured, i.e. those close to toilets, canteen areas or entrances that have automatic doors, so it is important to ensure all access points are covered.

A larger quantity of matting at the favoured entrances is advised in these circumstances to guarantee an adequate amount of matting is provided to cope with the level of traffic.



### Length of Matting

HSL and EFSA have provided guidelines on the length of matting that should be installed based on the number of people entering a building per hour:

Flow Rate	People Per Hour	Minimum Length
Low	78	3-4 metres
Medium	400	6-7 metres
High	800	8-10 metres

Fitting the recommended amount of matting may not always be possible and small premises, such as a high street travel agent, may only be able to accommodate a small primary entrance mat.

Using barrier carpet as a floorcovering to support the entrance mat provides an ideal solution in these situations to increase dirt and moisture removal.

It is crucial to specify enough matting from the outset as modifying the entrance can be costly once the mat / matwell are installed.



## Environmental Factors

The external environment has an impact on the matting that is selected e.g.

- Does the entrance come straight off the street?
- Is there a canopy to shield the entrance from elements such as wind and rain?

If not, more thought should be given to specifying a more heavy duty entrance mat that will be able to cope with harsher levels of dirt and moisture ingress.

If under-specified, the mat will soon become saturated and unable to retain any more moisture and as a result these contaminants would be tracked onto surrounding floorcoverings, increasing the risk of slip, trip and fall accidents.



## Type of Traffic

Matting should be suitable for both foot and wheeled traffic to meet the latest guidelines (see pages 46 to 47).

It is the level of each type of traffic, however, that needs to be considered to provide the optimum specification for the environment.

### Example 1: Office

- The majority of traffic is likely to be pedestrian with a low volume of wheeled traffic

### Example 2: Supermarket

- A high concentration of both wheeled and foot traffic would be expected



## Sustainability

Sustainability is a now a key factor for consideration in all building design.

Products that support the environment, such as those with a high recycled content or those that have a high BREEAM rating, are favoured over those that are not as environmentally friendly.

Gradus Boulevard 6000 & 5000<sup>HD</sup> barrier carpets have been BRE certified whilst Tyreguard primary matting incorporates 100% recycled wipers made from aeroplane tyres. Approximately 70% of aluminium supplied to Gradus comes from 100% recycled billet. All aluminium waste/cut offs are collected and recycled back into prime material.



The study also highlighted some common errors when specifying matting, which can be detrimental to an installation. To ensure the optimum specification:

- ✗ DON'T use throw down mats**
- ✗ DON'T leave a gap between the entrance and the matting**
- ✗ DON'T use mats that impede the movement of wheelchairs (or other wheeled vehicles), i.e. coir**
- ✗ DON'T forget to clean the mat to maintain its effectiveness**

# Specification Guidelines

## The Building Regulations and British Standards - specifying the right Gradus product

The Building Regulations and British Standards are designed to ensure the optimum specification of products through a combination of legislative requirements and guidance. The following extracts have been taken from The Building Regulations 2000 and British Standards BS7953:1999 and BS8300:2009 + A1:2010 and show how Gradus products can be used to help satisfy these requirements, and help achieve an inclusive environment in line with the Equality Act 2010. For further details on this or any other aspect of The Building Regulations and British Standards contact Gradus Technical Services on 01625 428922.

[Extracts from the Building Regulations](#)

### The Building Regulations 2000 - Approved Document M “Access to and use of buildings” (Effective May 2004)

Building owners have a legal duty to ensure all people can gain access to and use a building and its facilities.

Approved documents are intended to provide guidance and much of the guidance in Approved Document M is based on BS8300:2001. The main points relating to entrance matting that are detailed in Approved Document M are shown below, with supporting recommendation by Gradus [shown in blue text](#).

#### The Legal Requirement

Part M Access to and use of buildings  
Access and Use

M1. Reasonable provision shall be made for people to -

- a) gain access to : and
- b) use the building and its facilities

#### Approved Document M

##### Entrance Lobbies

2-29 (e) Floor surface materials within the lobby do not impede the movement of wheelchairs e.g. not coir matting, and changes in floor materials do not create a potential trip hazard.

[All Gradus barrier matting featured within this catalogue is suitable for use with wheelchairs.](#)

2-29 (f) The floor surface helps to remove rainwater from shoes and wheelchairs.

[A combination of Gradus primary matting and secondary barrier carpet will help prevent the ingress of rainwater.](#)

2-29 (g) where matwells are provided, the surface of the mat is level with the surface of the adjacent floor finish.

[Gradus offers a range of matwell frames and primary barrier mats designed to work together to provide a smooth transition to the surrounding floor finish.](#)

Source: Building Regulations - Access to and use of buildings - Approved Document M - 2004 Edition  
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[Extracts shown below represent examples of good practice](#)

### BS7953 : 1999

#### Entrance flooring systems – Selection, installation and maintenance

This British Standard describes types of interior and exterior entrance flooring systems and gives recommendations for methods of selection, planning, installation and maintenance. Gradus advice and recommendations are [shown in blue text](#).

The function of the entrance flooring system is to reduce the incidence of slip accidents by reducing the amount of soil and moisture tracked onto hard and resilient floors... an entrance flooring system should have the following qualities:

- removal and retention of soil;
- ease of cleaning and maintenance;
- retention of physical characteristics

[Gradus Barrier Matting Systems effectively remove soil and moisture from both foot and wheeled traffic.](#)

[The design and materials used within Gradus matting ensure that the products can be easily cleaned and maintained.](#)

Permission to reproduce BS 7953:1999 is granted by BSI. British Standards can be obtained from:  
BSI Customer Services, 389 Chiswick High Road, London W4 4AL. Tel: +44 (0) 20 8996 9001. Email: [cservices@bsi-global.com](mailto:cservices@bsi-global.com)

## BS8300:2009+A1:2010

### Design of buildings and their approaches to meet the needs of disabled people - Code of practice

This standard provides guidance or good practice in the design of domestic and non-domestic buildings and their approaches so that they are convenient to use by disabled people. Gradus advice and recommendations are [shown in blue text](#).

#### Entrances

##### 6.1.1 General

The following factors should be addressed in the design of the entrance to a building:

b) the type of threshold needed to allow convenient wheelchair manoeuvre.

##### 7.1.1 Entrance flooring systems

At entrances to commercial buildings and buildings used by the general public, an entrance flooring system to remove water and debris from the soles of shoes and wheelchair wheels should be provided.

Matting and other floor surfaces should conform to the recommendations in 9.1.3. (see page 2 for details)

NOTE 1 Guidance on the selection, planning, installation and maintenance of entrance flooring systems is given in BS 7953.

[Useful products:](#) Entrances are prone to heavy soiling and moisture ingress, which should be removed at the access points to a building to increase life expectancy and reduce maintenance costs of the adjacent floorcovering. Combinations of exterior and interior primary matting and secondary barrier carpet can be installed to provide attractive, functional barrier solutions that ensure adequate removal of both tracked in dirt and moisture. Gradus offers a range of primary mats (Esplanade 8000, Esplanade Plus, Esplanade 1500, Esplanade 1000, Topguard, Topguard FR, Tyreguard and Access) that can be used in conjunction with secondary barrier carpet (Boulevard 1500, 5000<sup>HD</sup> and 6000) to fulfil this requirement.

#### Reception Areas / Foyers

##### 7.1.2 Reception area

The approach from the entrance to the reception point should be direct, free from obstructions, have a firm, slip-resistant surface and allow easy manoeuvre of a wheelchair.

[Useful products:](#) Foyers and reception areas are typically heavily trafficked circulation areas, often located near the entrance to buildings. They require hardwearing floorcoverings that are easy to clean and will retain their appearance, in order to ensure that important first impressions are made. Products from the Boulevard range provide an ideal solution.

#### Corridors / Passageways

##### 7.2 Corridors and passageways

Choosing appropriate floor, wall and ceiling materials that contrast visually with adjacent surfaces and the use of natural and artificial lighting will benefit blind and partially sighted people.

##### 7.2.3 Floors in corridors

Floor patterning that could be mistaken for step, e.g. stripes, should not be used in floors and corridors.

[Useful products:](#) Main circulation areas, such as corridors, are often exposed to high and frequent levels of footfall. The introduction of a secondary barrier carpet such as Boulevard will increase life expectancy and reduce wear and maintenance of surrounding floor finishes.

#### General

##### 9.1.1 Visual characteristics

The LRV of a wall should be 30 points different from that of the ceiling and of the floor.

##### 9.1.3 Floor surfaces

Very shiny surfaces should be avoided due to problems with glare and the fact that they are perceived as being slippery even when they have a slip-resistant surface.

Large, repeating patterns that incorporate bold contrasting colours or simulate steps should not be used for any floor surface.

NOTE 1 Blind and partially sighted people can be confused by bold patterns used in floor coverings and might read them as changes in level.

Floor surfaces should offer a level of slip resistance that provides a firm foothold and good wheel grip under normal conditions of use. Adjacent floor surfaces should have similar levels of slip resistance.

The ingress of soil and surface moisture to buildings, or their transfer between adjacent internal areas, should be reduced to the lowest practicable level, e.g. through the use of appropriate entrance flooring systems, conforming to BS 7953 (see also 7.1.1).

Any matting should either have its surface level with the adjacent floor finish or, if surface laid, be of a type that has a rubber backing and chamfered edges. If, in exceptional circumstances other types of surface laid mats are used, they should be securely fixed to the floor at their edges and at any joints, to avoid the risk of tripping or slipping.

At wheelchair turning points and other heavily used areas other than entrances where entrance flooring systems are in use, carpet should be securely fixed on firm backing. Carpet construction, pile height and underlay type should be taken into account when assessing the suitability for wheelchair users and for people using walking sticks or frames.

Deep pile carpets and coir matting on the surface of the floor or within a mat well should not be used.

# Gradus

Gradus is a market leader providing contract interior solutions that incorporate wall protection and barrier matting systems, floorcoverings, complementary lighting systems in addition to an all encompassing range of stair edgings & floor trim profiles.

Products include:

- Stair Edgings & Floor Trims
- Barrier Matting Systems
- Floorcoverings
- Wall Protection Systems
- LED Lighting Systems





Stair Edgings



Floor Trims



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Wall Protection



LED Lighting



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