

GRADUS

Uniclass L5367	EPIC E482
CI/SfB (71.3) X	

Barrier Matting Systems

Accessories | primary and secondary matting





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Why Gradus

Gradus offers an extensive range of barrier matting systems, providing an effective barrier against dirt and moisture at entrances, access points and circulation areas.

Correct specification helps to reduce slip accidents, increase the lifecycle of surrounding floorcoverings and reduce maintenance costs.

All our products are designed to ensure the correct balance between safety, performance and aesthetics, and are suitable for a wide variety of contract applications.



Gradus is a member of the Contract Flooring Association



Gradus is a registered member of RIBA CPD Providers Network and offers a Barrier Matting Systems seminar



Gradus is a member of the Entrance Flooring Systems Association



Gradus is a member of NBS Plus

RRIN LECTURE
THEATRE

ELIZABETHAN



FRONT DOOR



Quality

- ISO 9001 quality accredited company
- ISO 18001 health and safety

Design

- Safety: matting helps to reduce slips, trips and falls caused by wet flooring in line with the latest guidelines
- Performance: extensive research and testing to ensure durability and appearance retention throughout a product's life
- Aesthetics: primary barrier mats can be manufactured to shapes and sizes to complement floor plans of entrances to buildings
- In-house design and product development

Sustainability

- ISO 14001:2004 environmentally accredited company
- We have a firm set of environmental objectives providing a clear approach to sustainability in areas such as legislation, waste, training and recycling

Knowledge

- Member of the Contract Flooring Association
- Member of the Entrance Flooring Systems Association (EFSA)
- Registered member of RIBA CPD Providers Network
- Technical Support
- Member of NBS Plus
- Investor in People
- Network of trained specification consultants



Why use matting?



Increase Public Safety

- ! According to the Health & Safety Executive, 90% of slip accidents in public buildings occur on wet floors
- ✓ An effective matting system can reduce the amount of dirt and moisture tracked into a building by up to 90%, helping to reduce such slip accidents

Remove Dirt & Moisture

- ! More than 70% of dirt and moisture in buildings is tracked in by pedestrian and wheeled traffic
- ✓ An effective matting system removes and retains dirt and moisture, improving the appearance of internal floorcoverings and preventing unnecessary replacements

Reduce Maintenance Costs

- ! According to ISSA, the Worldwide Cleaning Industry Association, it costs approximately £700 to remove 1kg of soil tracked into a building, which equates to over £50,000 per year to remove this soil and keep a building clean (based on 500 working in a building 5 days per week)
- ✓ An effective matting system increases the lifecycle of all floorcoverings, reducing maintenance costs and the amount of material sent to landfill

How to specify matting

Type of matting

Primary or Secondary

Primary barrier matting is the first point of contact at the entrance to a building and can be used both internally and externally, dependent on the base and wiper materials selected (where a mat is situated in a brightly lit area, consideration should be given to the wiper and linking strips chosen to avoid creating a strobe effect. Please contact us for help when specifying a mat in such an environment).

The immediate external environment can impact the type of primary matting specified e.g. a more heavy duty mat may be required if the entrance is not protected by a canopy. Primary mats are also available in different heights for recessing into a matwell or for surface-mounting onto a finished floor (see page 35 for more information).

See Zones 1 and 2 on pages 8 and 9 for more information on the use of primary matting.

Secondary barrier carpets are made from high performance textiles and can be used in conjunction with primary matting or as stand-alone mats at entrances as well as circulation / targeted areas within a building. See Zones 3 and 4 on pages 8 and 9 for more information.

Open or Closed Construction

An **open construction** primary mat incorporates spaces, usually between the wipers and linking strips, to allow the dirt and moisture to fall through the mat into the matwell below (see Diagram 1). This can be removed by lifting the mat and cleaning the matwell as well as deep cleaning the mat itself.

A **closed construction** primary mat has wipers and linking strips that are joined together (see Diagram 2). Dirt and moisture remain on the surface of the mat and can be removed by regular cleaning with an upright vacuum cleaner, in addition to periodic deep cleaning.

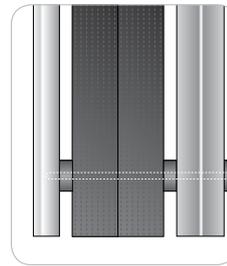


Diagram 1



Diagram 2

Traffic

Volume and Type of Traffic

The mat selected should be suited to the volume and concentration of traffic that is expected in that area e.g. a main entrance may require a heavy duty primary mat compared to secondary entrances or access points, where a less heavy duty primary mat or even secondary barrier carpet is sufficient.

Further information can be found on pages 44-45.

In addition, a mat should be suitable for both wheeled and pedestrian traffic to meet the latest guidelines (see pages 46-47).



Amount of matting

Width and Length of Matting

An entrance mat should be wide enough to cover the whole entrance, including any side entrances. The length of the mat (often referred to as 'going') is dependent on the volume of traffic using the mat. Where entrances are not big enough to accommodate the recommended amount of primary matting, secondary matting can be used to provide an additional barrier.

The findings from the Health & Safety Laboratory (HSL) and Entrance Flooring Systems Association (EFSA) study on entrance matting help to determine the amount of matting required for an optimum specification. See pages 44-45 for more information.



Where to use barrier matting

An effective barrier matting system, when correctly specified, will help to minimise the risk of slip accidents caused by wet flooring and lower maintenance costs by significantly reducing the amount of dirt and moisture tracked into a building. Barrier matting can not only be used at a building's entrance and access points but also in other areas that are subject to increased risk of soiling and heavy wear. In many cases the optimum performance is achieved by combining different types of barrier matting.

The illustration below is designed to act as a guide to show some of the areas of a building that are at risk. These are divided into zones, which are referred to throughout the catalogue.



Zone 1 Exterior Entrances & Access Points

Primary Barrier Matting

Products:	page
Esplanade 8000	10
Esplanade Plus	12
Esplanade 1500	14
Esplanade 1000	16
Topguard	18

- Removes excess dirt prior to entering a building using a scraper wiper
- Increases the effectiveness of internal primary and secondary matting
- Ideal in heavy traffic areas



Zone 4 **Other Areas**

Products:	page
Boulevard 6000	26
Boulevard 5000 ^{HD}	28
Boulevard 1500	30

Secondary Barrier Matting

- Removes and retains dirt and moisture to prevent ingress to adjacent floorcoverings
- Ideal for use in internal areas subject to a risk of spillage and soiling such as canteen / vending areas or breakout areas within an office environment
- Products are produced from high performance fibres that are suited to intense cleaning to ensure long life appearance retention. Some products carry the additional protection of a wear warranty

Zone 4

Zone 3

Zone 3

Zone 3 **Interior Circulation Areas and Some Interior Entrances & Access Points**

Products:	page
Boulevard 6000	26
Boulevard 5000 ^{HD}	28
Boulevard 1500	30

Secondary Barrier Matting

- Removes and retains dirt and moisture to prevent ingress to adjacent floorcoverings
- Often used in conjunction with Zone 2 primary entrance mats to create additional protection for surrounding floorcoverings. Can, in some circumstances, be used as stand alone entrance barrier matting
- Ideal for use in areas of heavy traffic and heavy wear such as staircases, reception areas, lift lobbies and internal entrances such as factory to office areas etc
- Offers excellent appearance retention properties when cleaned in accordance with Gradus recommended cleaning methods. Some products carry the additional protection of a wear warranty

Zone 2 **Interior Entrances & Access Points**

Products:	page
Esplanade 8000	10
Esplanade Plus	12
Esplanade 1500	14
Esplanade 1000	16
Topguard	18
Topguard FR	20
Tyreguard	22
Access	24

Primary Barrier Matting

- Removes and retains dirt and moisture to prevent ingress to adjacent floorcoverings through a combination of scraper and textile wipers
- Available with a choice of wipers that offer excellent appearance retention when cleaned in accordance with Gradus recommendations
- Available in a choice of open and closed construction and in different gauges to suit both recessed and surface mounted options
- Available to suit varying types and volumes of traffic

Esplanade 8000

Available Autumn 2012



Zones 1 & 2

Exterior & Interior Entrances & Access Points

Esplanade 8000 is a primary barrier mat suitable for use in the most demanding environments, such as shopping centres, airports and railway stations, where cleaning and drying of heavy foot and heavy wheeled traffic is required.

The mat is constructed from silver anodised aluminium scrapers and rigid PVC-u carriers incorporating 100% solution dyed nylon wipers with a heavy scraper yarn (in a choice of 3 colours) or a black pvc scraper wiper, which are joined together using stainless steel threaded bars. The silver anodised scrapers help to reduce the strobe effect whilst the PVC-u carriers provide excellent point loading. The nylon wipers offer optimum soil and moisture retention, yet are easy to maintain being resistant to bleach solutions whilst the pvc wipers are ideal for scraping off dirt. Esplanade 8000 can be manufactured to most shapes on approval of a template. For a complete entrance solution, Esplanade 8000 can be used with Boulevard secondary barrier carpet.

Esplanade 8000 has been tested with heavily laden trolleys to ensure suitability for use and is tested to a B1 fire rating as standard. The mat has also been tested for slip-resistance using the HSL ramp test and achieves a low risk of slip.

Service Options



**project management
& installation service**
(see page 41 for details)



5 day manufacturing service
(see page 40 for details)

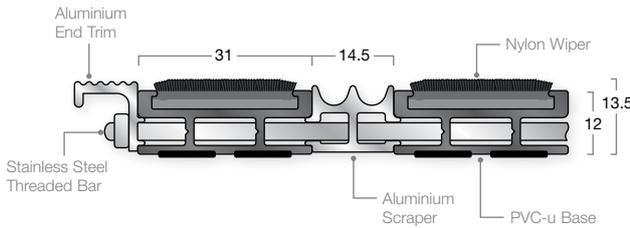
Available Autumn 2012

Profile Availability

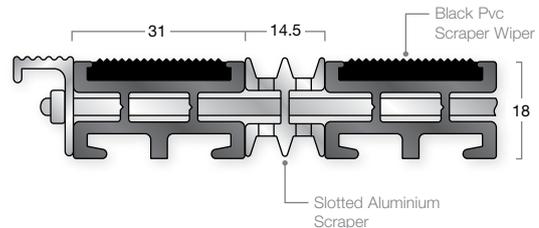
- Available in 12mm or 18mm thicknesses
- Available in open or closed construction
- Supplied with edging strips and divider bars (see page 33)



PVC-u/pvc - 50% of material is made from recycled content. 70% of aluminium comes from 100% recycled billet.



Esplanade 8000 12mm Closed Construction
Solution Dyed Nylon Wiper



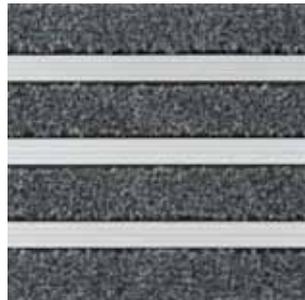
Esplanade 8000 18mm Open Construction
Pvc Scraper Wiper

Wiper Availability

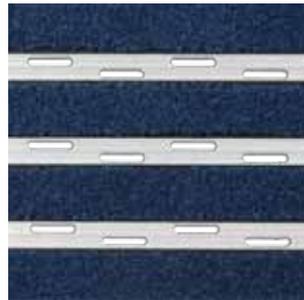
Orca - Interior use



Shark - Interior use



Marlin - Interior use

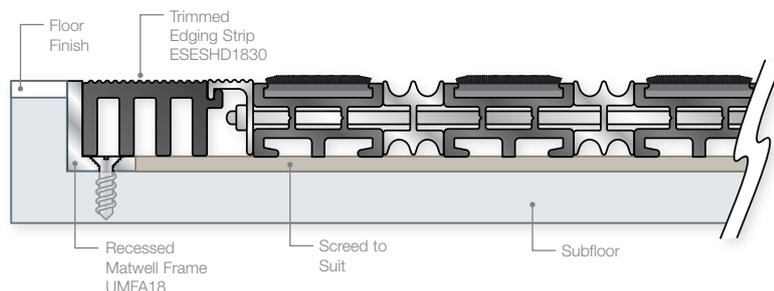


Black Pvc Scraper Wipers - Exterior use



Typical Installation

Esplanade 8000 18mm Closed Construction, Recessed in a Matwell Solution Dyed Nylon Wiper



Profiles:

Dimensions shown are nominal. Illustrations not to size. Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories see pages 35-39.

Esplanade Plus™



Zones 1 & 2

Exterior & Interior Entrances & Access Points

Esplanade Plus is a primary barrier mat suitable for use in areas of heavy foot and heavy wheeled traffic such as supermarkets, shopping centres and airports.

This mat is constructed using an aluminium base supported by rigid PVC-u bridging strips that provide excellent point loading combined with flexible pvc hinges in a choice of colours, which allow for minor undulations in the sub-floor. Aluminium scrapers are interspaced with 100% solution dyed nylon wipers that provide excellent soil and moisture retention (in a choice of 16 colours) or a black pvc wiper for scraping off dirt. Esplanade Plus can be manufactured to most shapes on approval of a template. Esplanade Plus co-ordinates with Boulevard 6000 and 5000^{HD} for a complete entrance solution.

Esplanade Plus has been tested with heavily laden trolleys to ensure suitability for use and is tested to a B1 fire rating as standard. The mat has also been tested for slip-resistance using the HSL ramp test and achieves a low risk of slip.

Service Options



project management & installation service
(see page 41 for details)



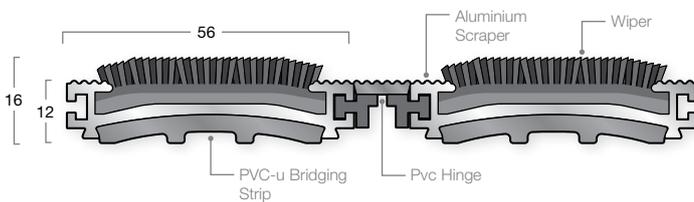
5 day manufacturing service
(see page 40 for details)

Profile Availability

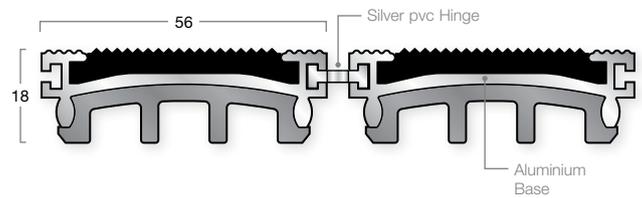
- Available in 12mm or 18mm thicknesses
- Available in open or closed construction
- Pvc hinges available in black or grey (closed construction). A push-in hinge is available when installing Esplanade Plus in restricted areas (see page 33)
- Supplied with edging strips and divider bars (see page 33)



PVC-u/pvc - 50% of material is made from recycled content. 70% of aluminium comes from 100% recycled billet.



Esplanade Plus 12mm Closed Construction
Boulevard Wiper



Esplanade Plus 18mm Open Construction
Pvc Scraper Wiper

Wiper Availability

Boulevard 6000 Wipers - Interior use
see pg 27 for 8 colour options

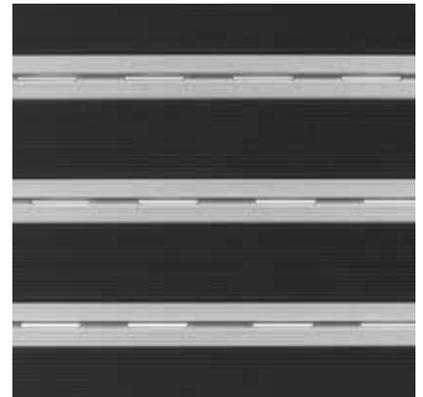


Boulevard 5000^{HD} Wipers - Interior use
see pg 29 for 8 colour options



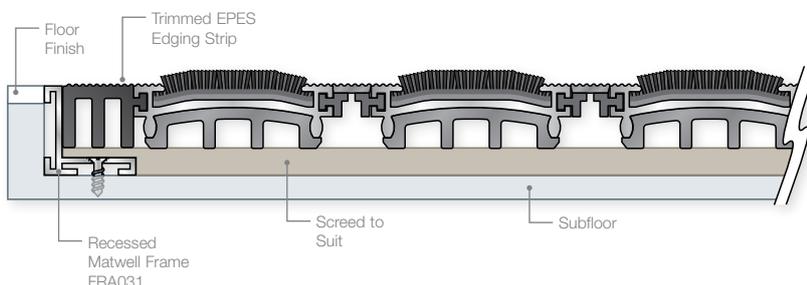
Co-ordinates with
Boulevard 6000 &
Boulevard 5000^{HD}

Black Pvc Scraper Wipers - Exterior use



Typical Installation

Esplanade Plus 18mm Closed Construction, Recessed in a Matwell
Boulevard Wiper



Profiles:

Dimensions shown are nominal. Illustrations not to size.
Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories
see pages 35-39.

Esplanade 1500



Zones 1 & 2

Exterior & Interior Entrances & Access Points

Esplanade 1500 is a primary barrier mat suitable for use in areas of heavy foot and medium wheeled traffic such as high street shops, schools and offices.

The mat is constructed using an aluminium base with rigid PVC-u support strips that provide additional strength. Flexible pvc linking strips provide ease of handling and help to allow for minor undulations in the matwell. Aluminium scrapers are interspaced with 100% polypropylene wipers (in a choice of 4 colours), which provide an effective surface for removal of dirt and moisture or a black pvc wiper for scraping off dirt. Esplanade 1500 can be manufactured to most shapes on approval of a template. Esplanade 1500 co-ordinates with Boulevard 1500 for a complete entrance solution.

Esplanade 1500 has been tested to ensure suitability for use and for slip-resistance using the HSL ramp test, achieving a low risk of slip.

Service Options



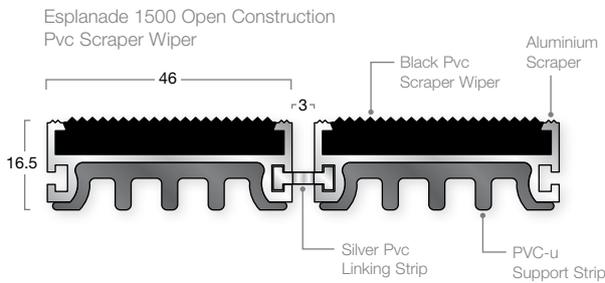
project management & installation service
(see page 41 for details)



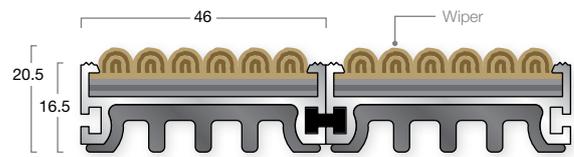
5 day manufacturing service
(see page 40 for details)

Profile Availability

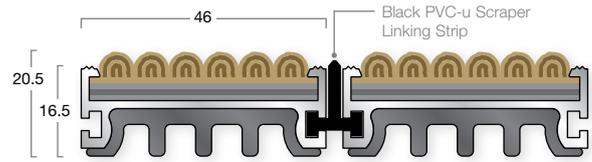
- Available in 16.5mm thickness
- Available in open, closed or scraper construction
- Pvc linking strips: open - silver, scraper - black
- Supplied with edging strips and divider bars (see page 33)



Esplanade 1500 Closed Construction
Boulevard 1500 Wiper



Esplanade 1500 Scraper Construction
Boulevard 1500 Wiper



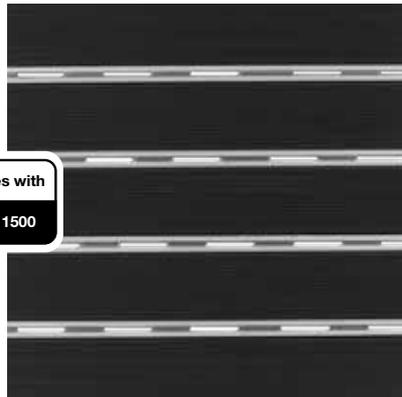
Wiper Availability

Boulevard 1500 Wipers - Interior use

see pg 31 for 4 colour options



Black Pvc Scraper Wipers - Exterior use



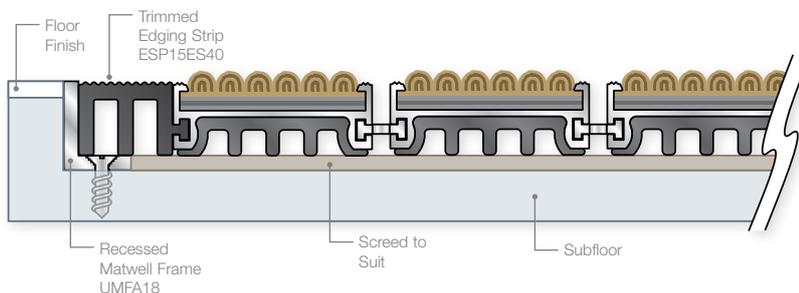
Co-ordinates with
Boulevard 1500



PVC-u/pvc - 50% of material is made from recycled content.
70% of aluminium comes from 100% recycled billet.

Typical Installation

Esplanade 1500 Open Construction, Recessed in a Matwell
Boulevard 1500 Wiper



Profiles:

Dimensions shown are nominal. Illustrations not to size.
Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories see pages 35-39.

Esplanade 1000



Zones 1 & 2

Exterior & Interior Entrances & Access Points

Esplanade 1000 is a cost-effective primary barrier mat suitable for use in areas of medium foot and wheeled traffic such as high street shops, office and schools.

The mat is constructed using an aluminium base incorporating 100% solution dyed nylon wipers (in a choice of 4 colours), which provide good soil and moisture retention or a black pvc wiper for scraping off dirt. Esplanade 1000 can be manufactured to most shapes on approval of a template. For a complete matting system, Esplanade 1000 can be used with Boulevard secondary barrier carpet.

Esplanade 1000 has been tested to ensure suitability for use and for slip-resistance using the HSL ramp test, achieving a low risk of slip.

Service Options



project management & installation service
(see page 41 for details)



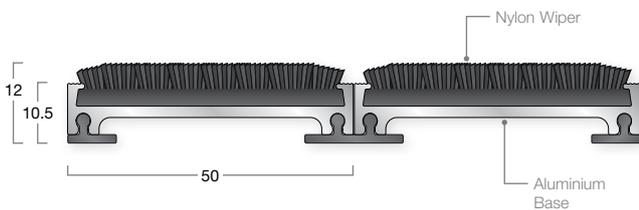
5 day manufacturing service
(see page 40 for details)

Profile Availability

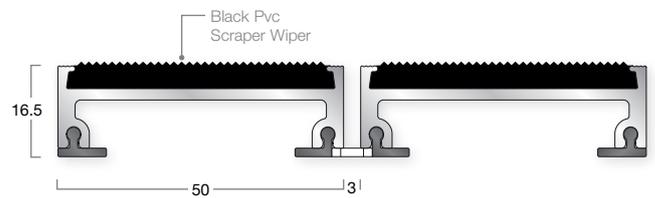
- Available in 12mm or 18mm thicknesses
- Available in open or closed construction
- Supplied with edging strips and divider bars (see page 33)



70% of aluminium comes from 100% recycled billet.



Esplanade 1000 12mm Closed Construction
Solution Dyed Nylon Wiper



Esplanade 1000 18mm Open Construction
Pvc Scraper Wiper

Wiper Availability

Typhoon - Interior use



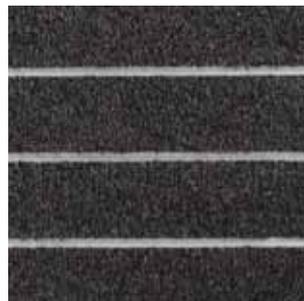
LRV 8.73

Blue Ridge - Interior use



LRV 3.96

Jet Stream - Interior use



LRV 3.56

Storm Surge - Interior use

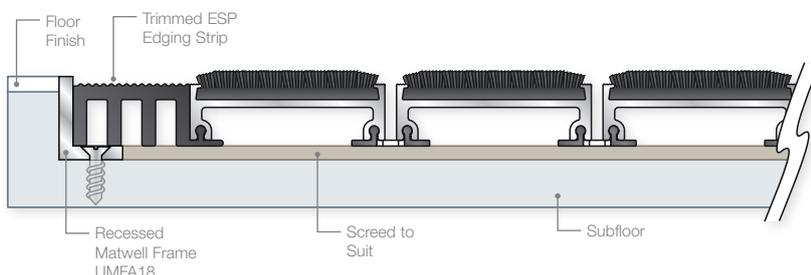


LRV 6.16

Exterior wiper - Black Pvc Scraper Wiper also available - see page 15 for visual appearance

Typical Installation

Esplanade 1000 18mm Open Construction, Recessed in a Matwell Solution Dyed Nylon Wiper



Profiles:

Dimensions shown are nominal. Illustrations not to size. Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories see pages 35-39.

Topguard®



Zones 1 & 2

Exterior & Interior Entrances & Access Points

Topguard is a primary barrier mat suitable for the most demanding applications e.g. airports and supermarkets, where cleaning and drying of heavy foot and heavy wheeled traffic is required.

This mat is constructed from rubber wipers, either plain or interwoven with nylon fibres and linking strips in a choice of aluminium, brass or PVC-u, held together with galvanised steel wires. When installed as a true rectangle or square, Topguard can be reversed to extend the product life. Topguard can also be manufactured to most shapes on approval of a template. For a complete matting system, Topguard can be used with Boulevard secondary barrier carpet.

Topguard has been tested with heavily laden trolleys to ensure suitability for use and has also been tested for slip-resistance using the HSL ramp test and achieves a low risk of slip.

Service Options



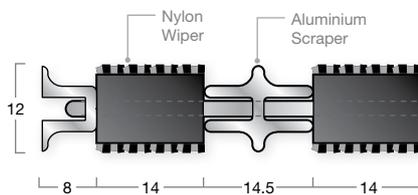
project management & installation service
(see page 41 for details)



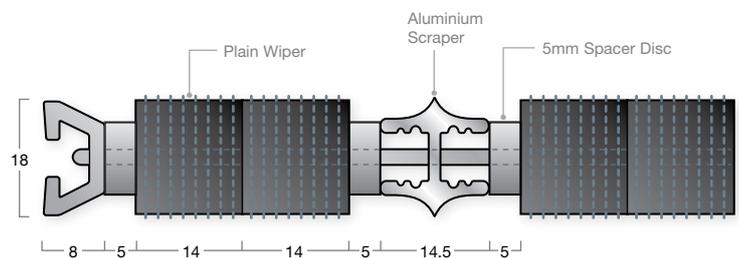
5 day manufacturing service
(see page 40 for details)

Profile Availability

- Available in 12mm or 18mm thicknesses
- Available in open (5mm) or closed construction
- Available with single or double wipers
- Supplied with divider bars (see page 33)



Topguard 12mm Closed Construction
Single Grey Nylon Wipers with Aluminium Scraper Linking Strips



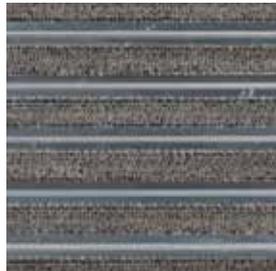
Topguard 18mm Open Construction
Double Plain Wipers with Aluminium Scraper Linking Strips

Wiper Availability

Plain Wipers - Exterior use



Grey Nylon Wipers - Interior use



Black Nylon Wipers - Interior use



Scraper Linking Strips



Brass



Black PVC-u



Green PVC-u



Aluminium



Brown PVC-u



Grey PVC-u



Red PVC-u



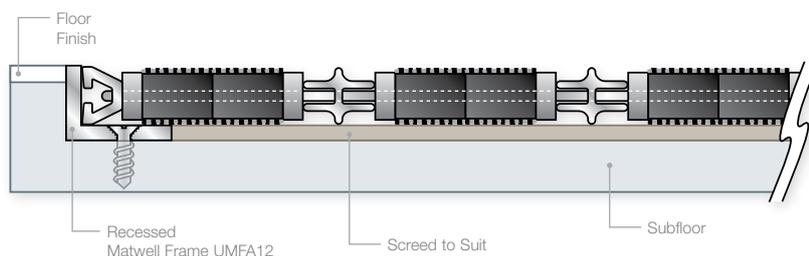
Blue PVC-u

Plain wipers only available with aluminium scraper linking strips.

PVC-u scraper linking strip only available in 18mm thickness.

Typical Installation

Topguard 12mm Open Construction, Recessed in a Matwell
Double Grey Nylon Wipers with Aluminium Scraper Linking Strips



Profiles:

Dimensions shown are nominal. Illustrations not to size. Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories see pages 35-39.

Topguard® FR



Zone 2

Interior Entrances & Access Points

Topguard FR is a fire rated primary barrier mat designed for use in areas of heavy foot and heavy wheeled traffic such as airports and supermarkets.

This mat is constructed from aluminium linking strips and rubber wipers interwoven with grey nylon fibres, held together with galvanised steel wires. When installed as a true rectangle or square, Topguard FR can be reversed to extend the product life. Topguard FR can also be manufactured to most shapes on approval of a template. Topguard FR can be used with Boulevard secondary barrier carpet for a complete entrance solution.

Topguard FR has been tested with heavily laden trolleys to ensure suitability for use and achieves a Euroclass Bfl-s1 classification, which minimises smoke emissions and limits the propagation and spread of flame. The mat has also been tested for slip-resistance using the HSL ramp test and achieves a low risk of slip.

Service Options

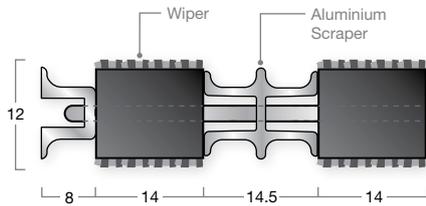


**project management
& installation service**
(see page 41 for details)

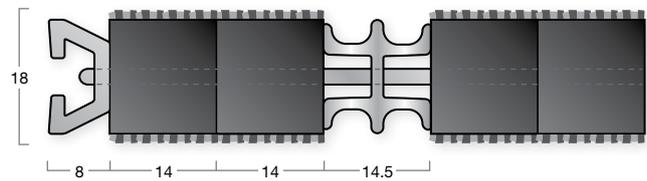
NOTE: Gradus Topguard FR primary barrier matting has been tested in accordance with EN ISO 11925-2:2002 and EN ISO 9239-1:2002 and classified according to EN 13501-1:2002 as – Reaction to Fire Classification B-s3, d0

Profile Availability

- Available in 12mm or 18mm thicknesses
- Available in closed construction only
- Available with single or double wipers
- Supplied with divider bars (see page 33)



Topguard FR 12mm Closed Construction
Single Grey Nylon Wipers with Aluminium Scraper Linking Strips



Topguard FR 18mm Closed Construction
Double Grey Nylon Wipers with Aluminium Scraper Linking Strips

Wiper Availability

Grey Nylon Wipers



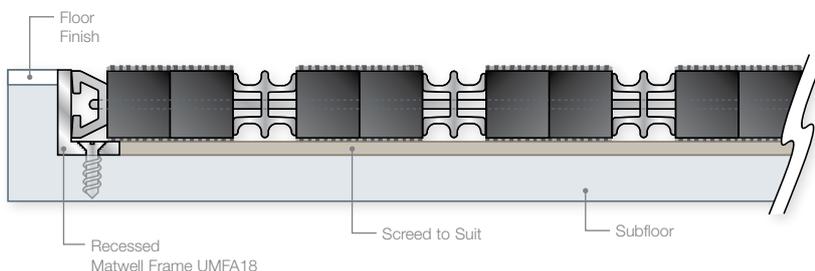
Scraper Linking Strips



Aluminium

Typical Installation

Topguard FR 18mm Closed Construction, Recessed in a Matwell
Double Grey Nylon Wipers with Aluminium Scraper Linking Strips



Profiles:

Dimensions shown are nominal. Illustrations not to size.
Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories
see pages 35-39.

Tyreguard



Zone 2

Interior Entrances & Access Points

Tyreguard primary barrier matting is an ideal choice where the use of recycled materials is a key consideration. Suitable for use in heavy pedestrian and heavy wheeled traffic applications e.g. shopping centres and airports, Tyreguard is manufactured from aluminium scrapers and 100% recycled rubber wipers, held together using galvanised steel wires. Entirely manufactured from aeroplane tyres, the grey wipers consist of alternate layers of textile and rubber.

When installed as a true rectangle or square, Tyreguard can be reversed to extend the product life. Tyreguard can also be manufactured to most shapes on approval of a template. For a complete entrance solution, Tyreguard can be used with Boulevard secondary barrier carpet.

Tyreguard has been tested with heavily laden trolleys to ensure suitability for use and has been tested for slip-resistance using the HSL ramp test, achieving a low risk of slip.

Service Options



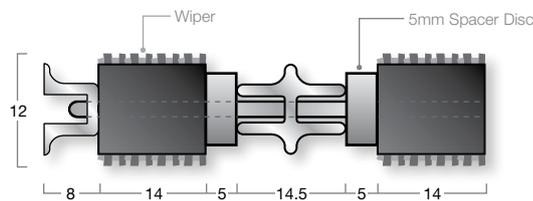
**project management
& installation service**
(see page 41 for details)



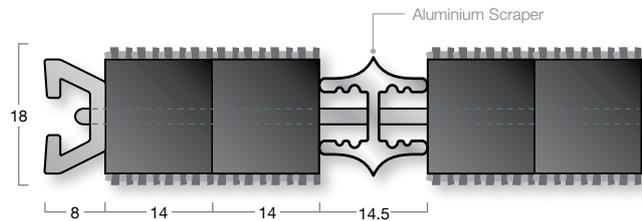
5 day manufacturing service
(see page 40 for details)

Profile Availability

- Available in 12mm or 18mm thicknesses
- Available in open or closed construction
- Available with single or double wipers
- Supplied with divider bars (see page 33)



Tyreguard 12mm Open Construction
Single Wiper with Aluminium Scraper Linking Strips



Tyreguard 18mm Closed Construction
Double Wiper with Aluminium Scraper Linking Strips

Wiper Availability

Grey Wipers



Scraper Linking Strips



Aluminium

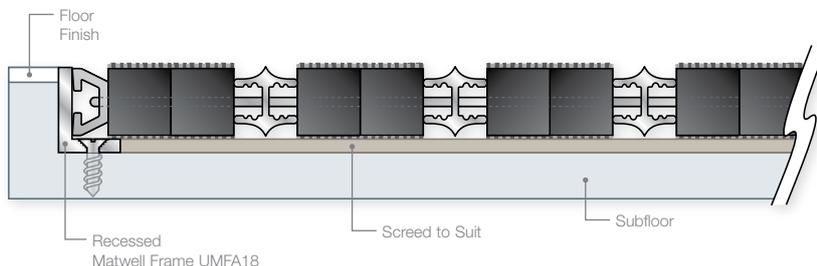


Tyreguard wipers are made from 100% recycled material.

NOTE: Wipers are made from 100% recycled material from aeroplane tyres, of which at least 50% is vulcanised rubber with the remainder being textile material. Due to the recycled content of the matting, there will be natural inconsistencies in the pile height and shading of the wipers. These variations should become less apparent once the product has been installed for a period of time.

Typical Installation

Tyreguard Closed Construction, Recessed in a Matwell
Double Wiper with Aluminium Scraper Linking Strips



Profiles:

Dimensions shown are nominal. Illustrations not to size.
Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories see pages 35-39.

Access[®]



Zone 2

Interior Entrances & Access Points

Access is an easy to install primary barrier mat suitable for medium levels of foot and wheeled traffic e.g. in schools, offices and some high street shops. Due to its non-metallic nature, Access is ideal for use where electronic tagging systems operate.

The mat comprises a moulded rubber base with 100% solution dyed nylon wipers that provide excellent soil and moisture retention (in a choice of 16 colours). Access co-ordinates with Boulevard 6000 and Boulevard 5000^{HD} for a complete entrance solution.

Access has been tested for dimensional stability, flammability tested to BS 4790:1987 and slip-resistance using the HSL ramp test, achieving a low risk of slip.

Service Options



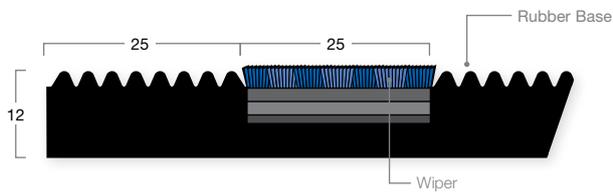
**project management
& installation service**
(see page 41 for details)



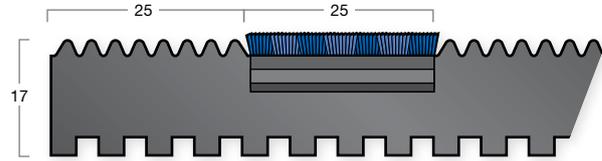
5 day manufacturing service
(see page 40 for details)

Profile Availability

- Available in 12mm or 17mm thicknesses
- Available with a black or grey rubber base
- Provided in 0.5m x 2.0m modules and supplied oversized for shaping and trimming on-site
- Spacer strips are supplied to allow for minor movement within the mat and provide a neat finish (see page 33)



Access 12mm Closed Construction
Boulevard Wiper with Rubber Base

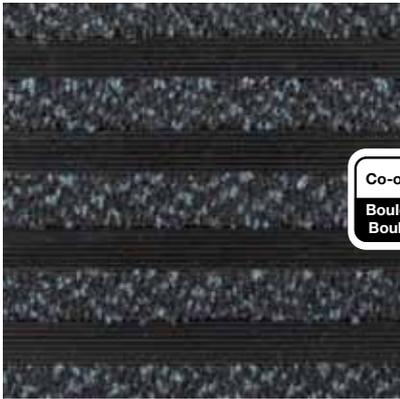


Access 17mm Closed Construction
Boulevard Wiper with Rubber Base

Wiper Availability

Boulevard 6000 Wipers

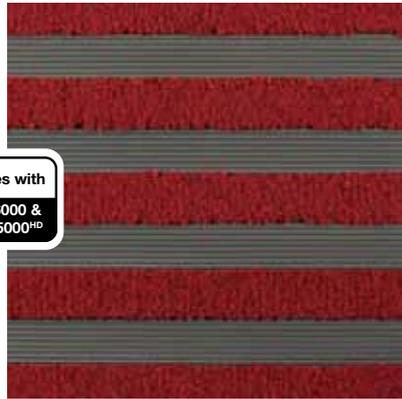
see pg 27 for 8 colour options



Shown with black base

Boulevard 5000^{HD} Wipers

see pg 29 for 8 colour options

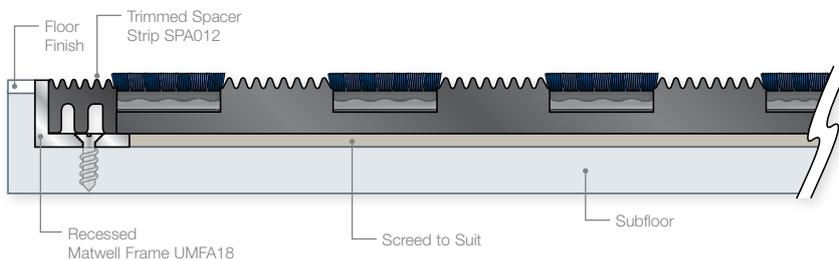


Shown with grey base

Co-ordinates with
Boulevard 6000 &
Boulevard 5000^{HD}

Typical Installation

Access 17mm Closed Construction, Recessed in a Matwell
Boulevard Wiper with Rubber Base

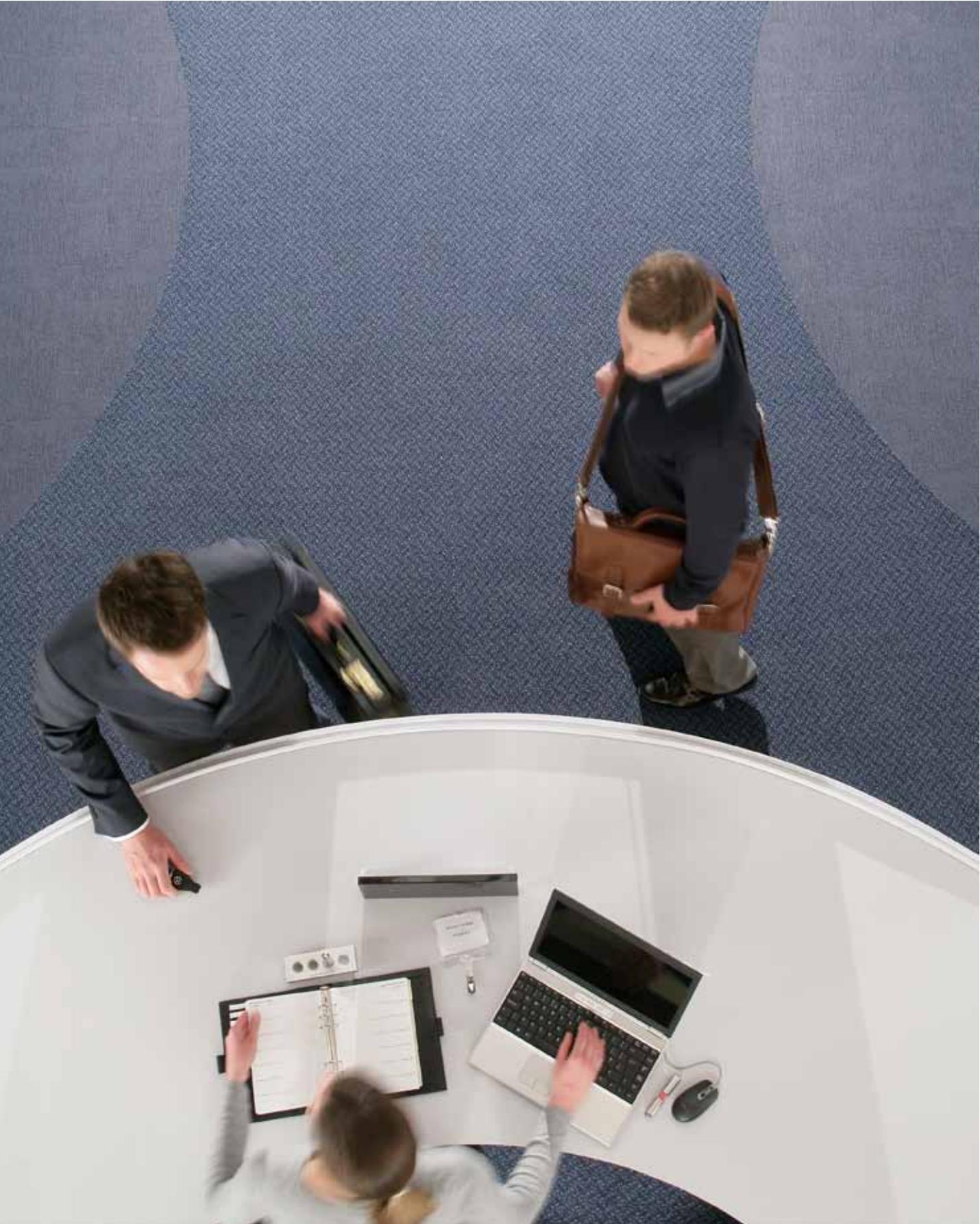


Profiles:

Dimensions shown are nominal. Illustrations not to size.
Products subject to minor design alterations without notice.

For installation accessories see page 33.
For matwell frames and matting accessories
see pages 35-39.

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 ²	4768 g/m ²
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
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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



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^{HD}



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 ²
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 ²
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.

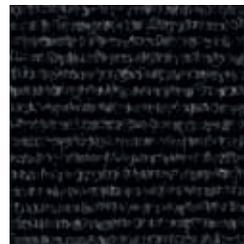


Samples

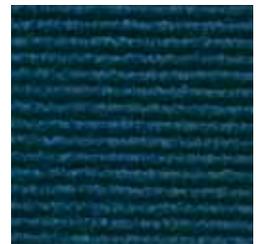
An accurate colour match can only be achieved by requesting the relevant product sample(s) from Gradus Technical Support on 01625 428922.



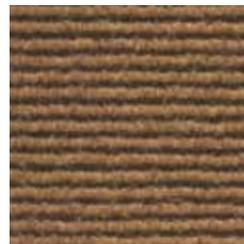
500mm x 500mm View



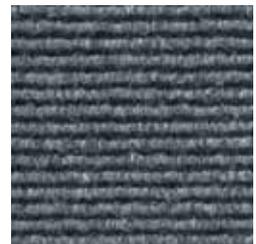
Tempestas
LRV 2.14



Marinus
LRV 2.71



Terra
LRV 10.89



Calculus
LRV 9.03

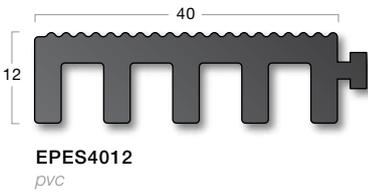
Installation Accessories



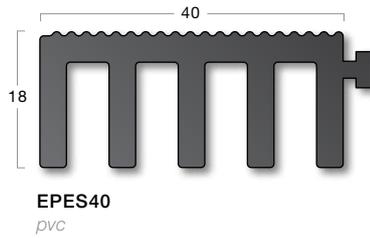
Edging Strips

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.

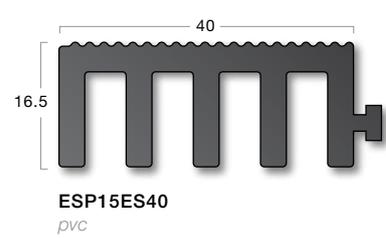
Esplanade Plus 12mm



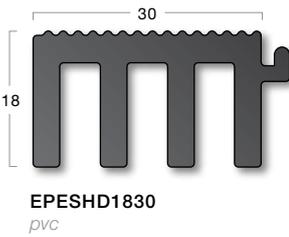
Esplanade Plus 18mm



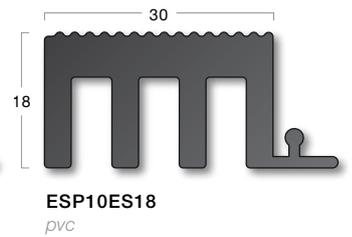
Esplanade 1500



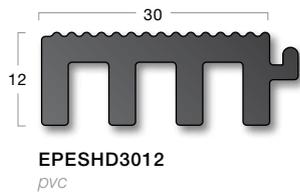
Esplanade 8000 18mm



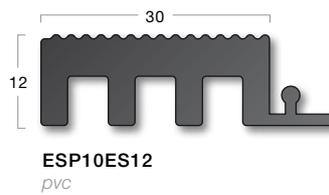
Esplanade 1000 18mm



Esplanade 8000 12mm



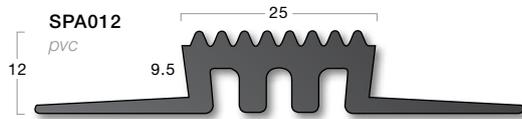
Esplanade 1000 12mm



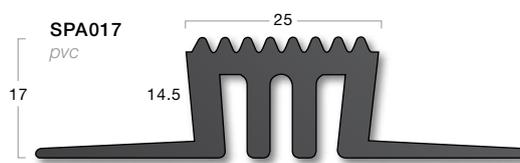
Spacer Strips

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.

Access 12mm



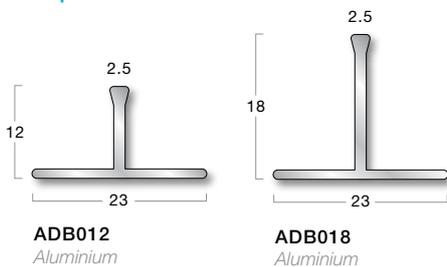
Access 17mm



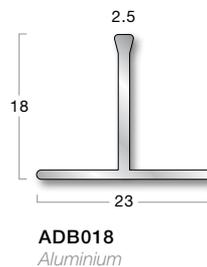
Divider Bars

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.

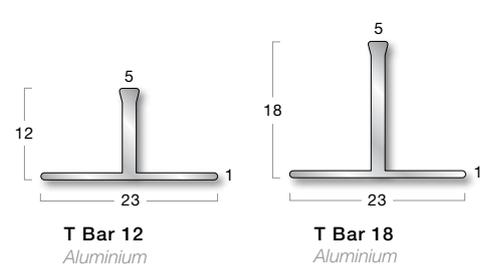
Esplanade 8000, Esplanade Plus & Esplanade 1000



Esplanade 1500



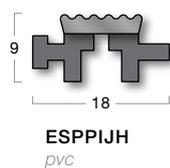
Topguard, Topguard FR & Tyreguard



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.

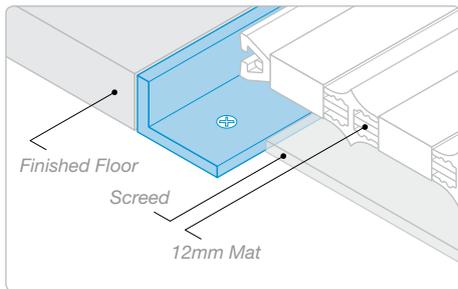


Figure 1
Example shows UMFA12 laid to accommodate a 12mm Gradus Topguard primary barrier mat.

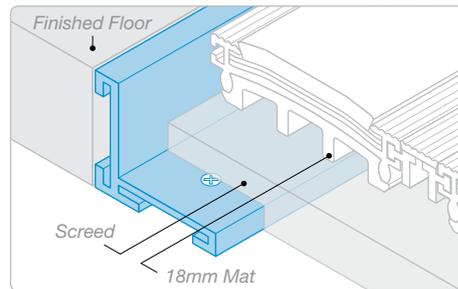
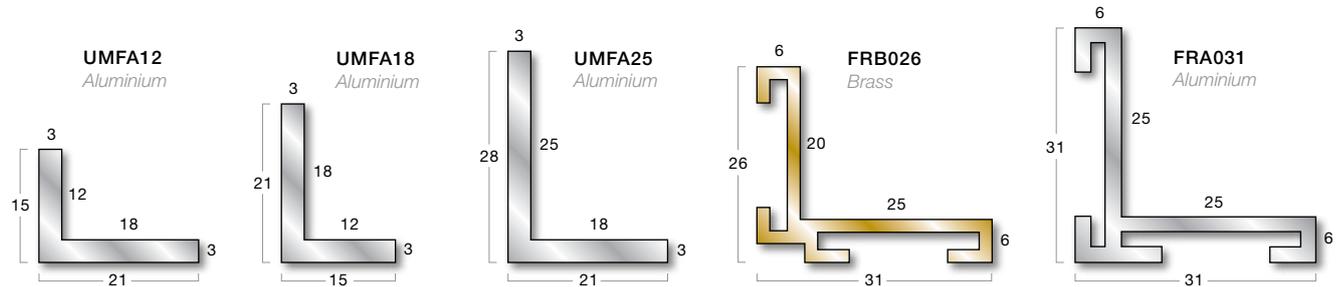


Figure 2
Example shows FRA031 laid to accommodate an 18mm Gradus Esplanade Plus primary barrier mat.

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.

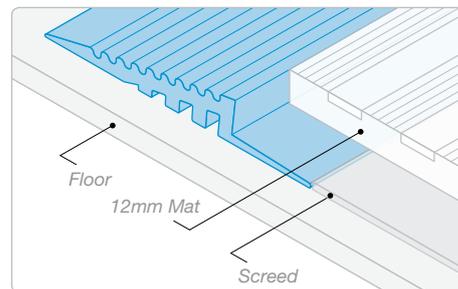


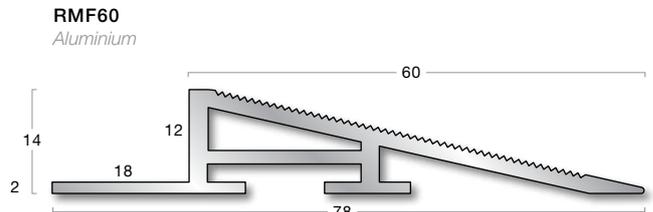
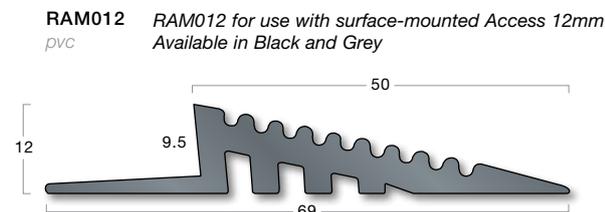
Figure 3
RAM012 laid to accommodate a 12mm Gradus Access primary barrier mat.

Ramping Frame

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

Note: Ramping frames cannot be curved.

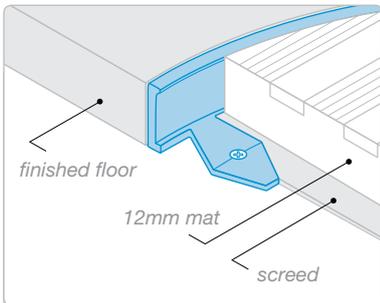
Profiles:
Dimensions shown are nominal. Illustrations are full size in mm.
Products subject to minor design alterations without notice.



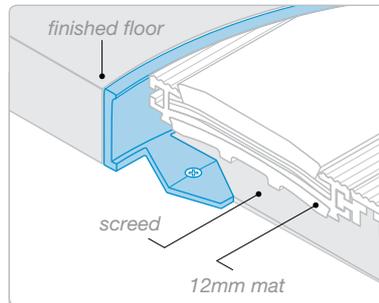
Matwell Frames

Formable Frames

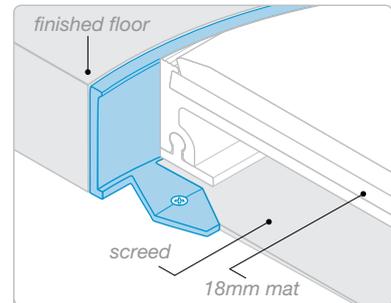
ETR trims allow design flexibility where a formed matwell frame is required. ETR trims are available in aluminium and brass and are suitable for use with the majority of Gradus primary barrier matting.



ETR305F0 laid to accommodate a 12mm Gradus Access primary barrier mat.

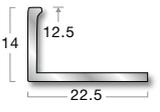
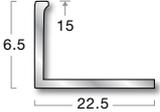
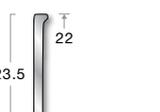
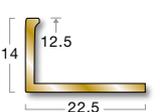
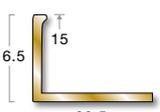
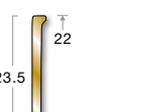


ETR306F0 laid to accommodate a 12mm Gradus Esplanade Plus barrier mat.



ETR309F0 laid to accommodate an 18mm Gradus Esplanade 1000 barrier mat.

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

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

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

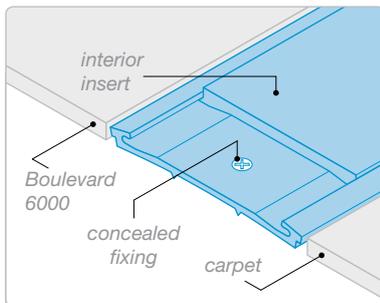
Brass ETR trims are subject to minimum order and lead times. Contact Technical Support on 01625 428922 for details.

Transition Profiles

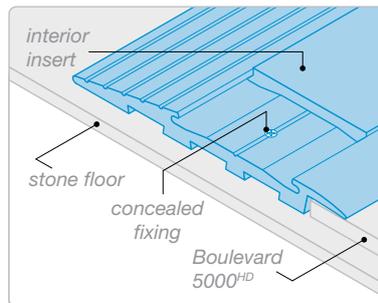
Trans-Edge®

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.

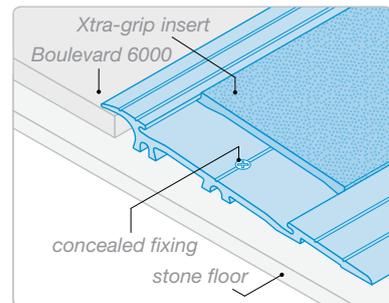
Trans-Edge trims comprise an aluminium base channel with a choice of slip-resistant Elite inserts. Standard interior insert is available for interior dry conditions. Xtra-grip insert is available for interior areas that are at risk of becoming wet and therefore pose a higher risk of slip. For further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



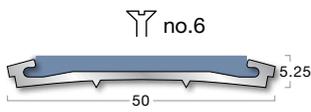
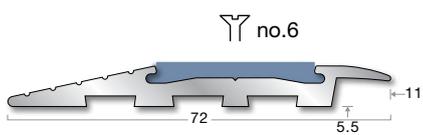
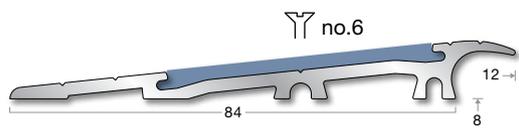
Typical example: ELACS5040 Boulevard 6000 barrier carpet to carpet.



Typical example: ELAR830 stone floor to Boulevard 5000^{HD} barrier carpet.



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

CODE / PROFILE	MATERIAL	LENGTH	COLOURS / FINISHES
ELACS5040 	Aluminium PVC-u insert (ELINS40)	2.50m Insert: 25m coil	Available in a choice of 17 interior insert colours. Visit www.gradusworld.com for further details
ELAR830 	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 www.gradusworld.com for further details
ELAR950 	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 www.gradusworld.com for further details

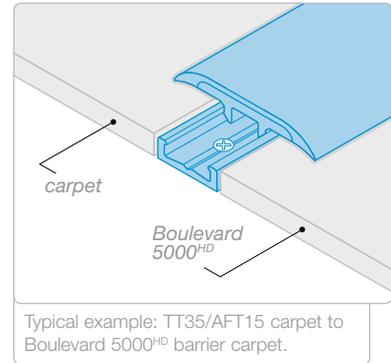
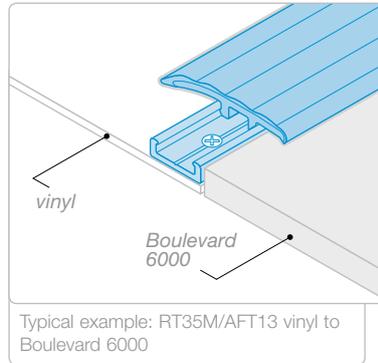
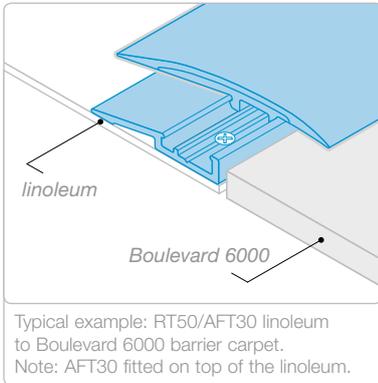
Dimensions shown are nominal. Illustrations are 70% size in mm. Products subject to minor design alterations without notice.

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



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
RT50 / AFT30 Registered Community Design Application No 001201941 see above Replaceable Tops	PVC-u Top Aluminium Base	2.50m	<ul style="list-style-type: none"> ● Black ● Brown ● Granite ● Bluebell ● Dove ● Clay
RT35M / AFT13 see above Replaceable Tops	Metallic PVC-u Top Aluminium Base	2.50m	<ul style="list-style-type: none"> ● Burnt Almond ● Zinc ● Doubleloon ● Platinum ● Silver
TT35 / AFT15 Registered Community Design Application No 001201941 Replaceable Tops	PVC-u Top Aluminium Base	2.50m	<ul style="list-style-type: none"> ● Black ● Brown ● Granite ● Bluebell ● Dove ● Clay

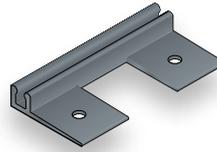
Dimensions shown are nominal. Illustrations are 70% size in mm. Products subject to minor design alterations without notice.

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.

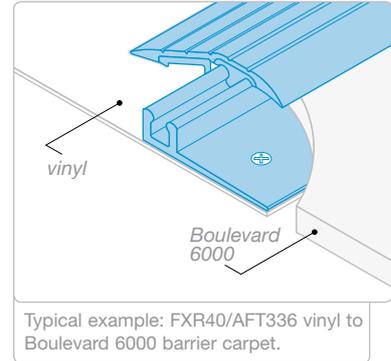
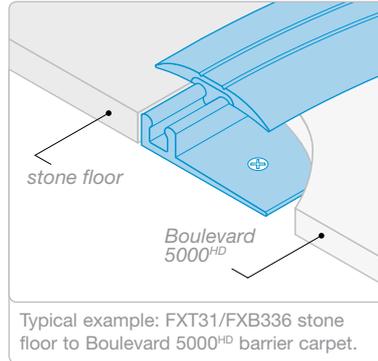
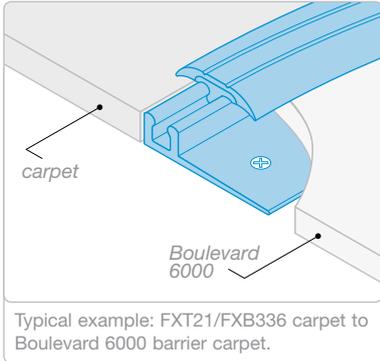
Available in a choice of 6 colours to suit most interior design schemes. For more information visit www.gradusworld.com



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

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 20m²

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 Website: 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

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^{HD} 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

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^{HD} 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



Skirtings & Cappings



Carpet & Carpet Tiles



Wall Protection



LED Lighting



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