

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.

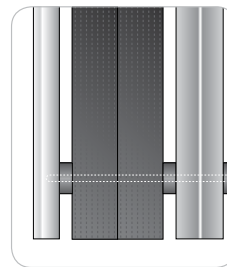


Diagram 1

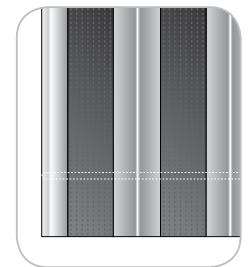


Diagram 2

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)

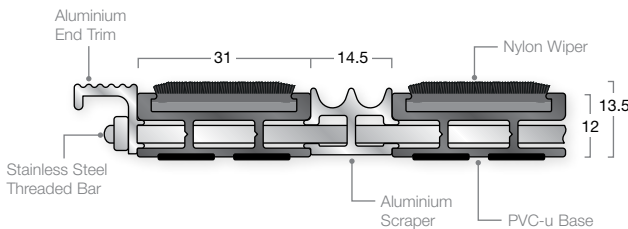
Available Autumn 2012

Profile Availability

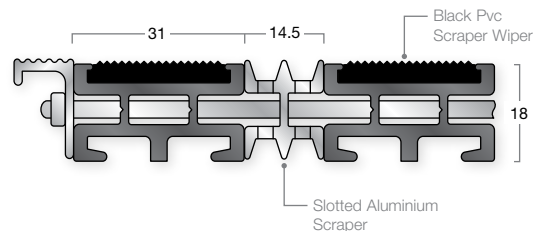
- Available in 12mm or 18mm thicknesses
- Available in open or closed construction
- Supplied with edging strips and divider bars (see page 33)



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

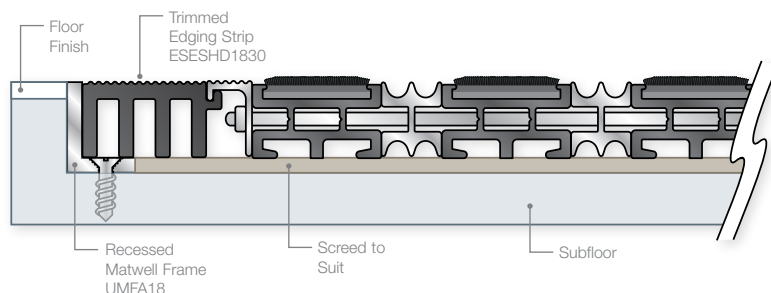


Black Pvc Scraper Wipers - Exterior use



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)



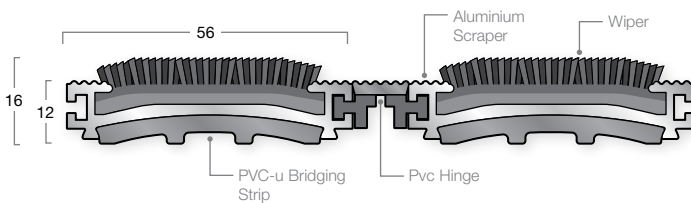
5 day manufacturing service
(see page 40 for details)

Profile Availability

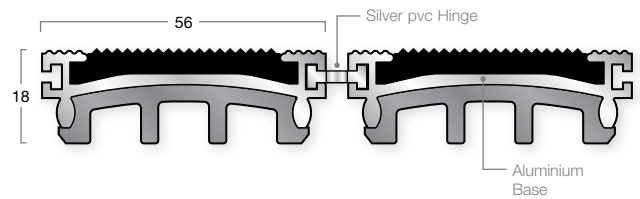
- Available in 12mm or 18mm thicknesses
- Available in open or closed construction
- Pvc hinges available in black or grey (closed construction). A push-in hinge is available when installing Esplanade Plus in restricted areas (see page 33)
- Supplied with edging strips and divider bars (see page 33)



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



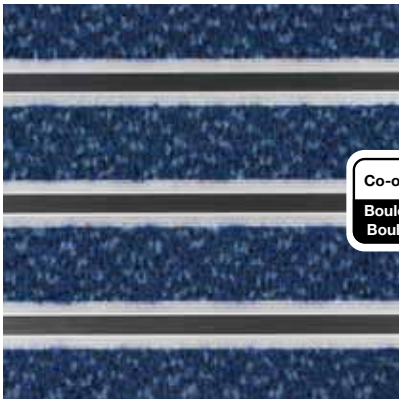
Esplanade Plus 12mm Closed Construction
Boulevard Wiper



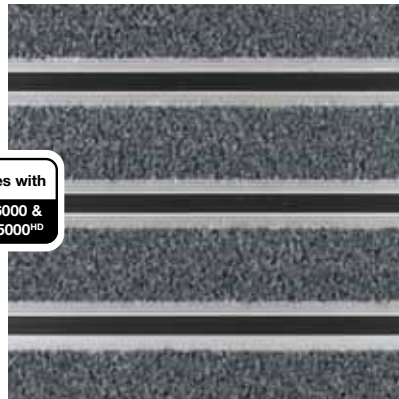
Esplanade Plus 18mm Open Construction
Pvc Scraper Wiper

Wiper Availability

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

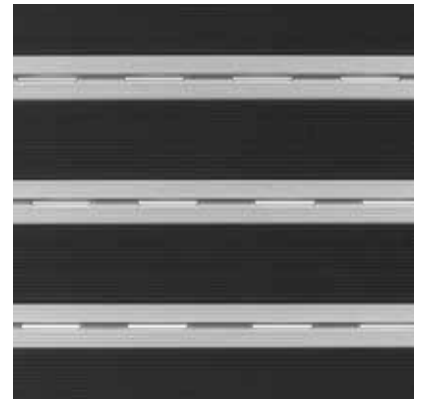


Boulevard 5000^{HD} Wipers - Interior use
see pg 29 for 8 colour options



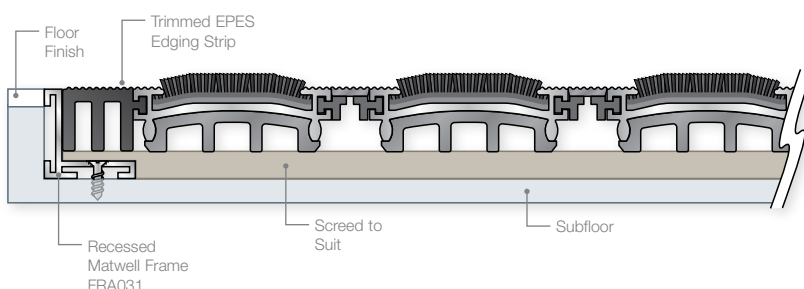
Co-ordinates with
Boulevard 6000 &
Boulevard 5000^{HD}

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



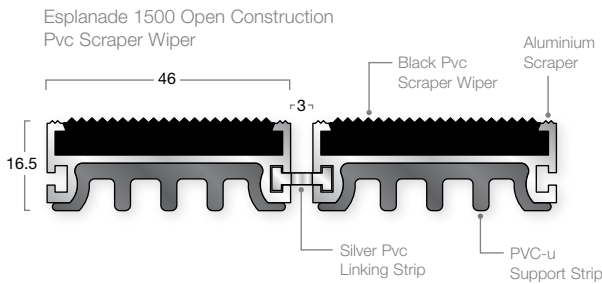
project management & installation service
(see page 41 for details)



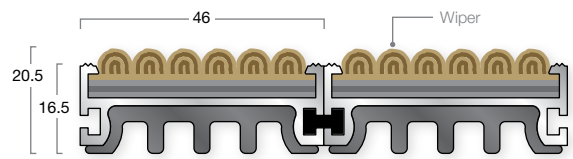
5 day manufacturing service
(see page 40 for details)

Profile Availability

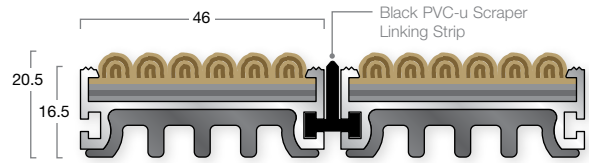
- Available in 16.5mm thickness
- Available in open, closed or scraper construction
- Pvc linking strips: open - silver, scraper - black
- Supplied with edging strips and divider bars (see page 33)



Esplanade 1500 Closed Construction
Boulevard 1500 Wiper



Esplanade 1500 Scraper Construction
Boulevard 1500 Wiper



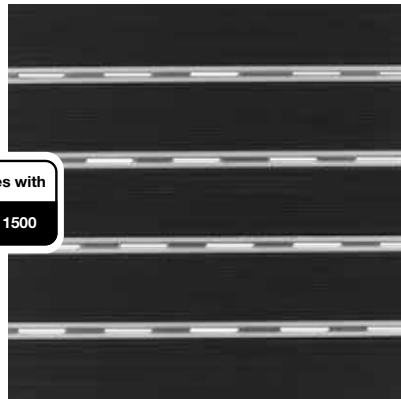
Wiper Availability

Boulevard 1500 Wipers - Interior use

see pg 31 for 4 colour options



Black Pvc Scraper Wipers - Exterior use



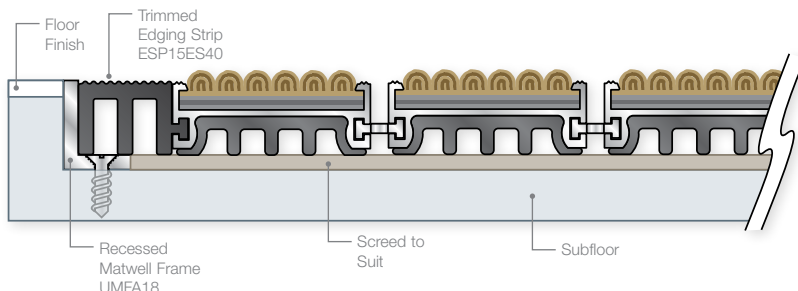
Co-ordinates with
Boulevard 1500



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)



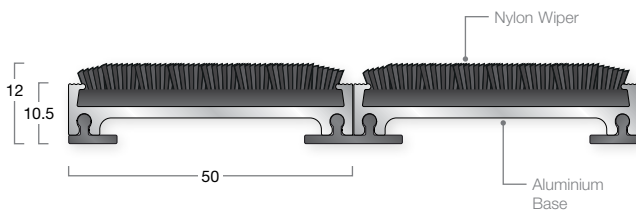
5 day manufacturing service
(see page 40 for details)

Profile Availability

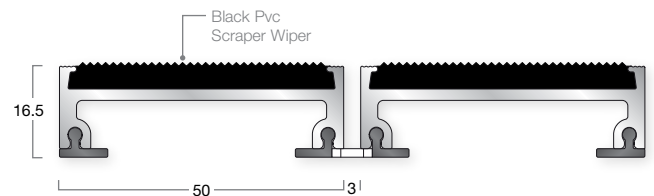
- Available in 12mm or 18mm thicknesses
- Available in open or closed construction
- Supplied with edging strips and divider bars (see page 33)



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

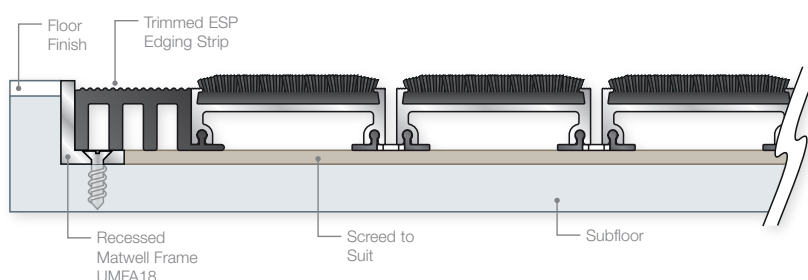


LRV 6.16

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



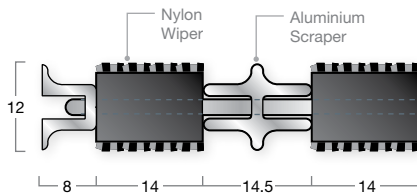
project management & installation service
(see page 41 for details)



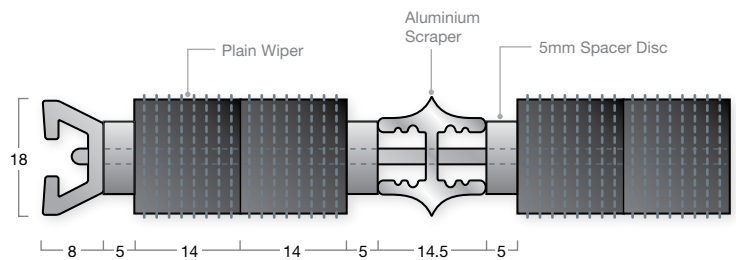
5 day manufacturing service
(see page 40 for details)

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



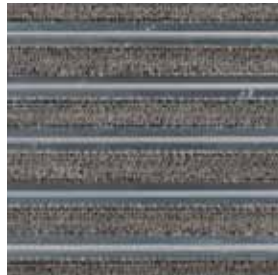
Topguard 18mm Open Construction
Double Plain Wipers with Aluminium Scraper Linking Strips

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



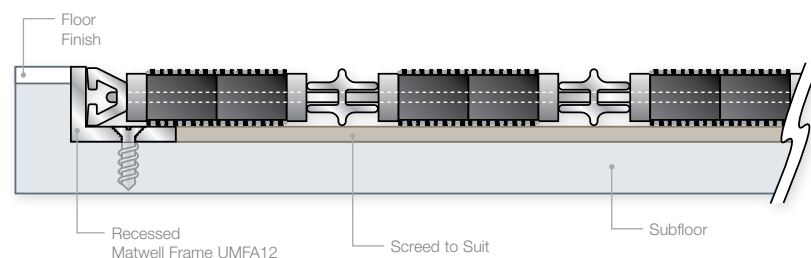
Blue PVC-u

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

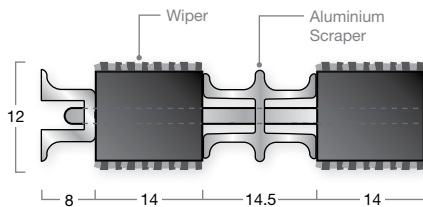


**project management
& installation service**
(see page 41 for details)

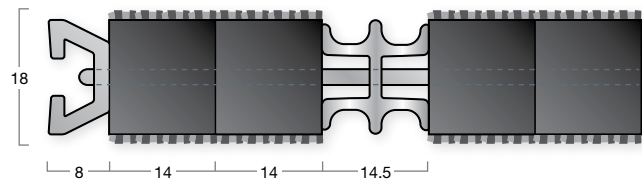
NOTE: Gradus Topguard FR primary barrier matting has been tested in accordance with EN ISO 11925-2:2002 and EN ISO 9239-1:2002 and classified according to EN 13501-1:2002 as – Reaction to Fire Classification B-s3, d0

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



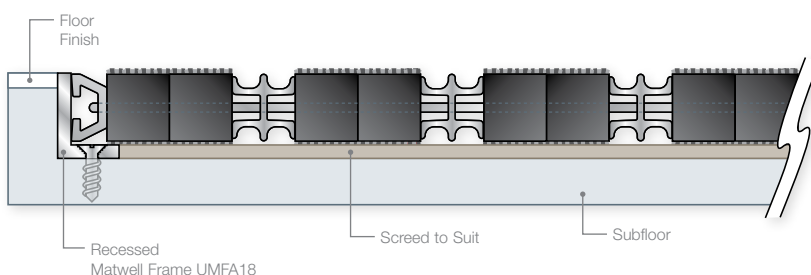
Scraper Linking Strips



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



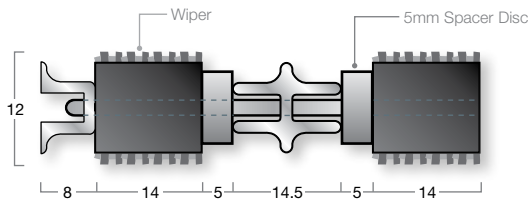
**project management
& installation service**
(see page 41 for details)



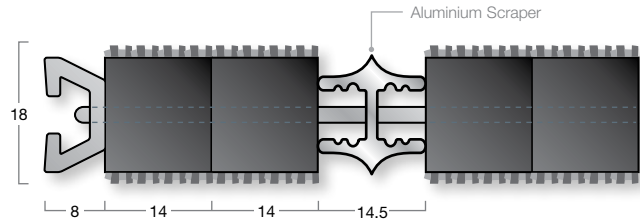
5 day manufacturing service
(see page 40 for details)

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

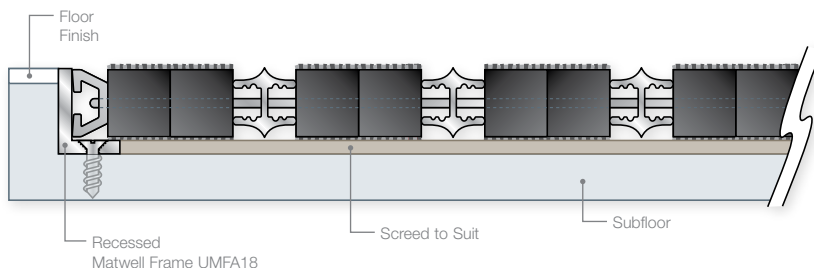


Tyreguard wipers are made from 100% recycled material.

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



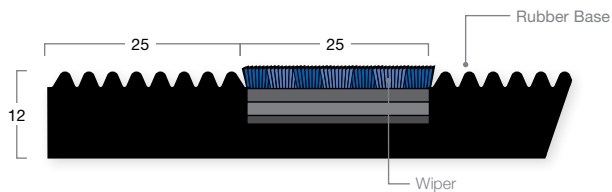
**project management
& installation service**
(see page 41 for details)



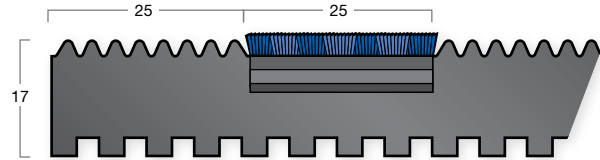
5 day manufacturing service
(see page 40 for details)

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

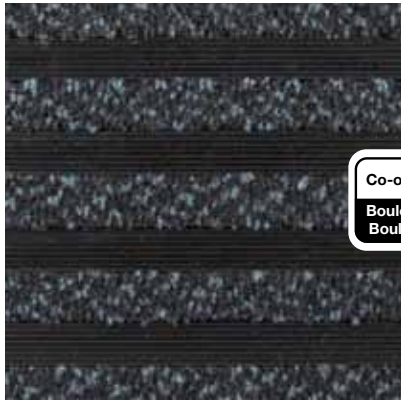


Access 17mm Closed Construction
Boulevard Wiper with Rubber Base

Wiper Availability

Boulevard 6000 Wipers

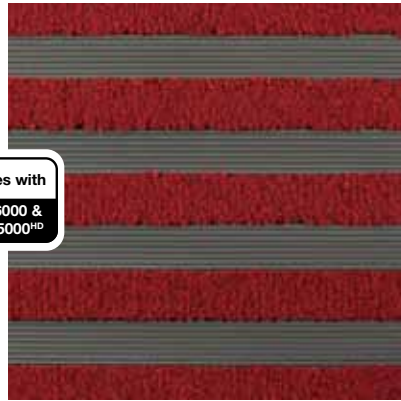
see pg 27 for 8 colour options



Shown with black base

Boulevard 5000^{HD} Wipers

see pg 29 for 8 colour options

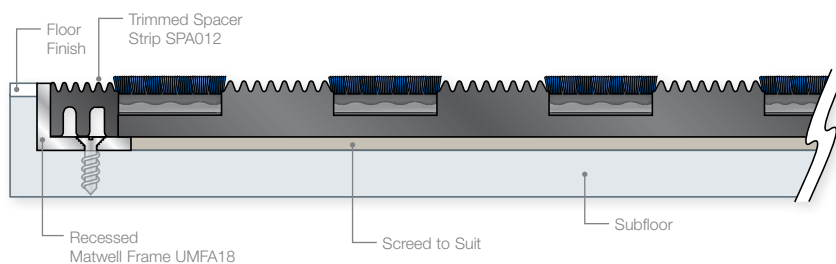


Shown with grey base

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.