

Forbo Flooring Systems is part of the Forbo Group, a global leader in flooring and movement systems, and offers a full range of flooring products for commercial and affordable housing and new build markets. High quality linoleum, vinyl, textile, flocked and entrance flooring products combine functionality, colour and design, offering total flooring solutions for any environment.

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FLOORING SYSTEMS

creating better environments



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nuway®



FLOORING SYSTEMS

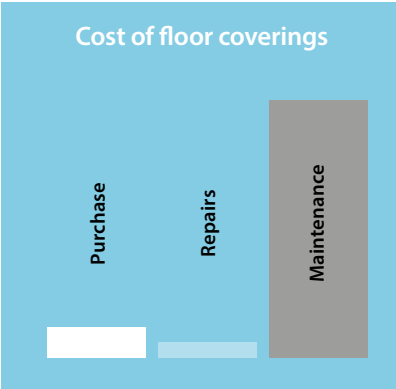
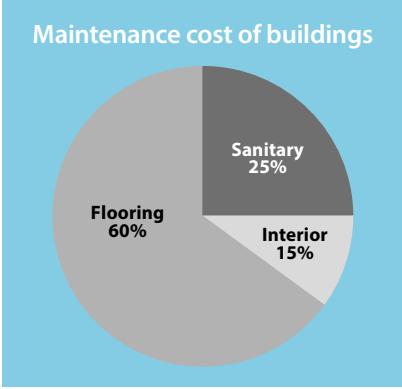
creating better environments

ENTRANCE FLOORING SYSTEMS **SAVE MONEY** ...



Research shows that up to 94% of the dirt entering a building is brought in on the soles of shoes and the tyres of wheeled traffic. This wet and dry soiling makes interiors look dirty and unattractive, causes structural damage to interior floor coverings and finishes and creates unnecessary health and safety hazards.

If effective measures are not taken to avoid this problem, the repair and maintenance costs of a typical floor covering over its lifespan could be nine times the cost of the original investment. A well designed entrance flooring system will prevent dirt and moisture from being tracked in and thereby prolong the life of interior flooring and reduce cleaning, repair and overall maintenance costs.



... AND **PROTECT** PEOPLE AND INTERIORS



Entrance flooring systems also have a critical safety role to play.

Slips, trips and falls made up **more than half of all reported injuries** in 2012/13 (source: RIDDOR) causing suffering and financial loss for individuals, companies and society at large.

Wet and dry soiling can both create slip hazards but by taking sensible decisions over flooring surfaces and installing effective entrance matting, the potential for slipping can be dramatically reduced.

There are two major pieces of legislation/guidance documents that affect the specification of EFS's.

British Standard 7953: 1999 Part 3.1 Guidance document

- Definition of an EFS
- The role of an EFS
- Product types

British Standard 8300: 2009+A1:2010

Making entrances safe and accessible for all.

The role of an entrance flooring system British Standard 7953 Part 5.1

"The entrance flooring system should scrape, wipe and retain soil, making contact with both feet of people entering the building and, in the case of wheeled traffic, with the circumference of the wheels."

British Standard 7953: 1999 states that an EFS is necessary in order to:

- Reduce the risk of slip injuries
- Prolong the life of the interior floor finish
- Reduce the cost of ongoing maintenance

The British Standard states why we need an entrance system and also what its role is.

Health and Safety and the Equality Act legislation imposes a duty of care on those who own and manage public buildings to prevent interior floor surfaces from becoming hazardous.

The safety needs of the elderly, the infirm and those with impairments must be given a high priority. Floors must be kept clean, dry and safe and offer an appropriate co-efficient of friction (slip-resistance) for pedestrians and good wheel grip for wheel chair users.

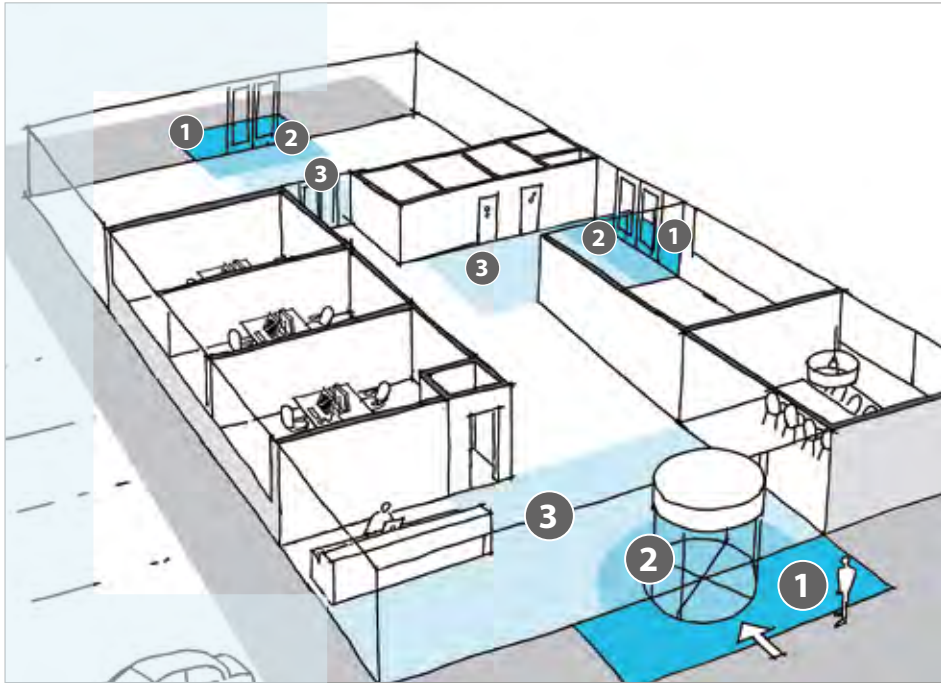
Equality Act 2010

British Standard 8300: 2009+A1:2010 Design of Buildings and their approaches to meet the needs of disabled people – Code of practice

"...The ingress of soil and surface moisture to buildings, or their transfer between adjacent internal areas, should be reduced to the lowest practical level, e.g. through the use of appropriate entrance matting systems conforming to British Standard 7953..."

Loose lay mats and coir are advised against.

WHICH ENTRANCE FLOORING SYSTEM SHOULD I CHOOSE?



Creating an effective entrance flooring system

- Think about **footfall** – the number of people walking in and out
- Think about **traffic routes** – the directions they approach the entrance and where they walk once inside
- Think about **location** – do you have space to include an external entrance?
- Think about first **impressions** – how can you keep your impressive reception area looking pristine
- Avoid using loose lay mats as the HSE advises against their use.

Source HSE elearning module 'Watch your Step'

Application

1 OUTSIDE USE

External entrance systems will defend against soil and the coarsest of foot-borne dirt.

2 INSIDE USE

Moving inside, the next line of defence, is used to remove foot-borne moisture and finer dirt particles.

3 OTHER CIRCULATION AREAS

Other areas in the building also suffer from soil and moisture; reception areas, corridors, walkways to other parts of the building, elevators, staircase exits, etc. All these areas will be prone to residual soiling and will benefit highly from a purposely designed Coral entrance mat to absorb this soiling.

We're here to help

We realise that specifying an entrance flooring system can seem a bit daunting and that's why we have an Entrance Flooring Systems Customer Service team who are specialist advisers on all aspects of Nuway. They can explain the differences between the four Nuway ranges and then guide you through the more technical aspects such as open or closed format, depth of product, how to measure and any accessories you may need to ensure that the product specified meets your needs precisely.

WHAT DO I NEED TO CONSIDER?


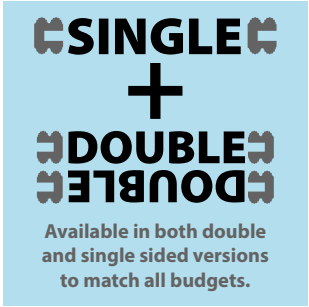

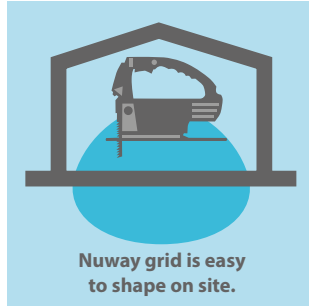


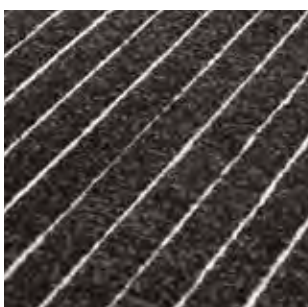

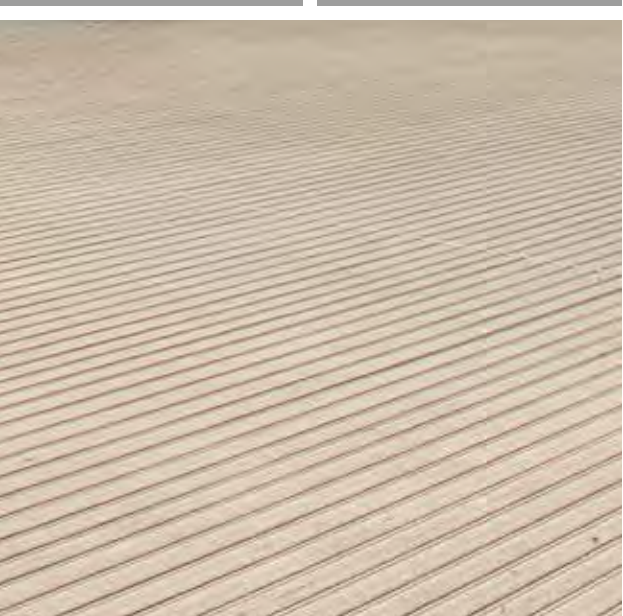

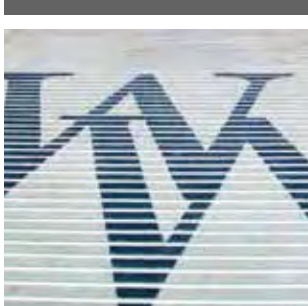

Where to use?	Internal or External?	Reversible?	Finishes – Reversible	Removes Moisture	Which should I choose?								
			<div>Scraper bars</div> <div>Wiper strips</div> <div>Finishes – Single sided</div> <div>Carriers</div> <div>Inserts coral®</div>										
The location, type and level of traffic affects the choice of product.	<p>Product outside will defend against soil and the coarsest of foot-borne dirt.</p> <p>Inside it will defend against foot-borne moisture and finer dirt particles.</p>	<p>Double sided rigid entrance systems can be reversible, effectively doubling their lifespan.</p> <p>Please see the table below to see which products are reversible.</p>	<p>There is a wide choice of wiper strips and scraper bars/ carriers and inserts to allow our Nuway entrance systems to co-ordinate with all interior finishes.</p> <table><tr><th>Scraper Bars</th><th>Wiper Strips</th></tr><tr><td>As the name suggests, they scrape soil from the traffic walking across the entrance system.</td><td>Prime rubber and polyamide fibre remove moisture and fine dirt</td></tr><tr><th>Single sided carriers</th><th>Single sided inserts</th></tr><tr><td>with crimping action to secure insert.</td><td>Mix and match with Ultragrip rubber, bristle and a wide range of Coral inserts which allow colour coordination with interior finishes.</td></tr></table>	Scraper Bars	Wiper Strips	As the name suggests, they scrape soil from the traffic walking across the entrance system.	Prime rubber and polyamide fibre remove moisture and fine dirt	Single sided carriers	Single sided inserts	with crimping action to secure insert.	Mix and match with Ultragrip rubber, bristle and a wide range of Coral inserts which allow colour coordination with interior finishes.	Removing moisture from the soles of shoes is vital to prevent slipping.	Each product in our Nuway collection offers differing benefits and features. See pages 7 and 8 for more details.
Scraper Bars	Wiper Strips												
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Single sided carriers	Single sided inserts												
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	Application			Intense traffic	Extreme point loading	Reversible
nuway [®] tuftiguard	1 + 2					
nuway [®] tuftiguard HD	1 + 2					
nuway [®] connect	1 + 2					
nuway [®] grid	1 + 2					

*Nuway installations undertaken by a Forbo Entrance System Specialised Installer (FESSI) are guaranteed for up to 15 years (7 years for Bamboo).

 <p>nuway® tuftguard HD</p>	 <p>Nuway Tuftguard HD is strong enough to cope with high point loads of up to 900Kg/cm².</p>	 <p>nuway® tuftguard</p>	 <p>OPEN CLOSED</p> <p>Most Nuway ranges offer a choice of open or closed construction to meet individual requirements.</p>
		 <p>100% of the aluminium used in Nuway Tuftguard mats is recycled.</p>	 <p>DOUBLE DOUBLE</p> <p>Nuway Tuftguard can be reversible, effectively doubling its life.</p>
 <p>nuway® tuftguard bamboo</p>	 <p>Nuway Tuftguard is available in Bamboo, a sustainable species of grass.</p>	 <p>100% of aluminium and steel waste from our Nuway production is recycled.</p>	 <p>SINGLE + coral®</p> <p>Nuway single sided ranges are available with Coral inserts for colour co-ordination.</p>
 <p>Nuway Tuftguard Bamboo prevents strobing in bright entrances.</p>	 <p>Nuway Tuftguard Bamboo is ideal for use alongside timber interior finishes.</p>		

WHY CHOOSE NUWAY?

 <p>Nuway entrance systems use anodised aluminium to reduce reflection and glare.</p>	 <p>SINGLE + DOUBLE</p> <p>Available in both double and single sided versions to match all budgets.</p>	 <p>nuway® grid</p>	 <p>Nuway grid is easy to shape on site.</p>
 <p>nuway® connect</p>	 <p>Nuway Connect in open format is rollable for ease of cleaning.</p>		 <p>A well designed entrance system will prevent dirt and moisture entering a building, prolong the life of interior finishes, reduce cleaning and repair costs and prevent slips.</p>
	 <p><i>customise</i> nuway®</p> <p>All Nuway mats can be customised with names, logos and corporate messages.</p>		 <p>nuway® coral®</p> <p>Can be colour co-ordinated with Coral textile entrance products.</p>



PAGE
11

nuway® tuftguard

The original and most widely used rigid entrance mat in the UK. Reversible, effectively doubling its lifespan and guaranteed for up to 15 years. Available in open or closed format with single or double wiper strips for increased moisture removal.



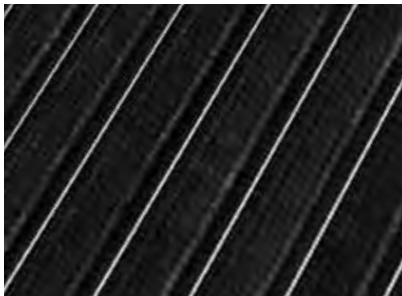
Tuftguard plain

Ideal for external entrances.



Tuftguard classic

Our best seller.



Tuftguard design

For increased colour and design.

A well designed entrance flooring system will prevent dirt and moisture from being tracked in, prolong the life of interior flooring, reduce cleaning, repair and overall maintenance costs and prevent slips and trips.

THE NUWAY COLLECTION AT A GLANCE



PAGE
11



PAGE
13



PAGE
16

nuway® tuftguard black anodised

All the benefits of Tuftguard combined with a matt black aesthetic. The black anodised scraper bars are available in Tuftguard Classic or Tuftguard Design.

nuway® tuftguard bamboo

Ideal for use alongside timber finishes and offering excellent sustainability credentials. The Bamboo scraper bars are available in Tuftguard Classic or Tuftguard Design.

nuway® tuftguard HD

For entrances with intense traffic and high point loads.



PAGE
23



PAGE
31

nuway® connect

Single sided product offering 'mix and match' opportunities including bristle, Ultragrip Rubber and Coral inserts.

nuway® grid

Single sided product available with 15 inserts, including new Ultragrip Rubber for sure footing in multi-directional entrances.



At the heart of the Nuway range, **Tuftiguard Classic** is the most widely used rigid engineered entrance mat in the UK. Tuftiguard has the **durability, strength and structural integrity** to deliver **excellent performance and appearance retention** in intense traffic locations.

- High tensile steel linkages give Nuway Tuftiguard **construction integrity**
- Tuftiguard mats can sit in a matwell or can be used with ramp systems
- For multi-directional entrances, Nuway Tuftiguard is **available in 50cm tile format**
- Tuftiguard is available in **open or closed construction** to suit the location of the mat and preferred cleaning regime
- Tuftiguard is **available with single wiper strips or double wiper strips** where extra moisture absorption is required or where the entrance is less than 3 metres deep
- Tuftiguard is available in a **choice of depths** to match most matwells. Ramp frames are also available
- **Scraper bars**, as the name suggests, scrape soil from the traffic crossing the entrance system
- **Wiper strips** remove moisture and finer dirt
- In our **Black anodised** aluminium mats, the black anodised finish is **removed from the tip of the scraper bars** to ensure a **consistent appearance** across the mat.

There are three different styles of Tuftiguard, each offering a different level of design and performance flexibility.

	Best Seller Tuftiguard Classic	Tuftiguard Plain	Tuftiguard Design
Suitable for external / interior entrances	INT	EXT	INT
Reversible?	DOUBLE REVERSIBLE		
Colours of wiper strips available	Buffed for maximum dirt hiding	Unbuffed rubber for use in external entrances	Additional choice of 9 colours to reflect interior colour schemes
Wiper strip format	Single wiper strip	Double wiper strip for increased moisture removal and where the entrance is less than 3m deep	
Colours of scraper bars available	Anodised aluminium Suitable for most areas	Black anodised aluminium (Internal only) Offering a matt aesthetic and helps prevent strobing in bright entrances	Bamboo (Internal only) Sustainable and ideal for use alongside timber finishes
Depth options	12mm	or	17mm
Construction of mat	CLOSED	or OPEN	Open construction, ideal for external entrances as it can store more wet and dry soil. The new open construction design is heel proof.
Where to use?	Very heavy and intense traffic areas.		

* For details on FESSI's please visit www.forbo-flooring.co.uk/FESSI

CONSIDERATIONS

As with all aluminium matting systems of this type, in very brightly lit areas, the strong contrast between a light aluminium scraper bar and a dark wiper strip can sometimes create a strobe effect which should be prevented. To avoid disorientating pedestrians affected by this type of visual disturbance, consider using Bamboo or Black anodised scraper bars or a less contrasting wiper strip.

NEW TUFTIGUARD BAMBOO – THE SUSTAINABLE CHOICE



- Bamboo is a **sustainable** species of grass
- Tuftiguard Bamboo uses **MOSO high Density** which outperforms the very best hardwood species, making it the best natural solution in heavy traffic situations.
- MOSO bamboo is the **fastest growing** plant in the world
- MOSO bamboo is **sourced from sustainably managed forests** and plantations and is **FSC certified**
- As Bamboo is a **natural product**, there will be some **slight colour variances** between the scraper bars
- Again, as it's a **natural product**, the mat may **fade** slightly over time and could lose some **small splinters** during its life cycle, however, this **will not affect the structural integrity** of the mat.

BAMBOO SCRAPER BARS



CONSIDERATIONS

Bamboo is a natural product so there will be a variance of colour within the scraper bars and although the Bamboo may fade and lose small 'splinters', the structural integrity of the mat will not be affected.

In very brightly lit areas, the strong contrast between a light aluminium scraper bar and a dark wiper strip can sometimes create a strobe effect, which should be avoided.

To prevent this type of occurrence, consider using scraper bars in **Bamboo** or **Black Anodised Aluminium**.

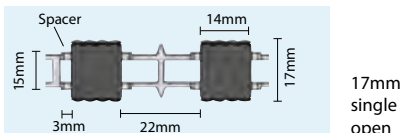
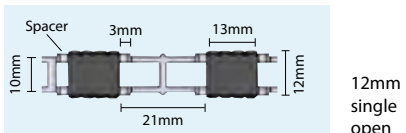
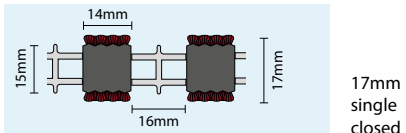
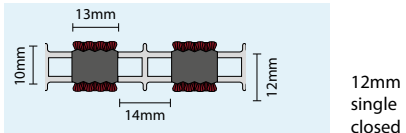


nuway® tuftiguard

DESIGN OPTIONS



Tuftiguard Classic and Design – dimensions

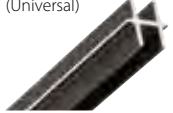


All dimensions are approximate.

Scraper bars



Aluminium (Universal)



Black Anodised Aluminium (Classic & Design)



Bamboo (Classic & Design)

Wiper bar options

Plain and Classic



Unbuffed (Plain)



Buffed (Classic)

Wiper bar options

Design



Charcoal



Ocean



Petrol



Evergreen



Willow



Scarlet



Claret



Violet



Sienna

For more detailed information on the dimensions of our Nuway Tuftiguard Entrance Systems, please visit www.forbo-flooring.co.uk/downloads, or contact our Entrance Flooring Systems Customer Service team on **01773 740 688**.

There are three different styles of Tuftiguard HD, each offering a different level of design and performance flexibility.

Tuftiguard HD Plain



Tuftiguard HD classic



Tuftiguard HD design



Tuftiguard HD classic

This is the best selling option in our HD collection.

- The wiper strip is buffed rubber for maximum dirt hiding as most dirt is light grey
- The ridged scraper bars help to prevent glare

Tuftiguard HD plain

As the Classic offer but with an unbuffed wiper strip making it suitable for external entrances

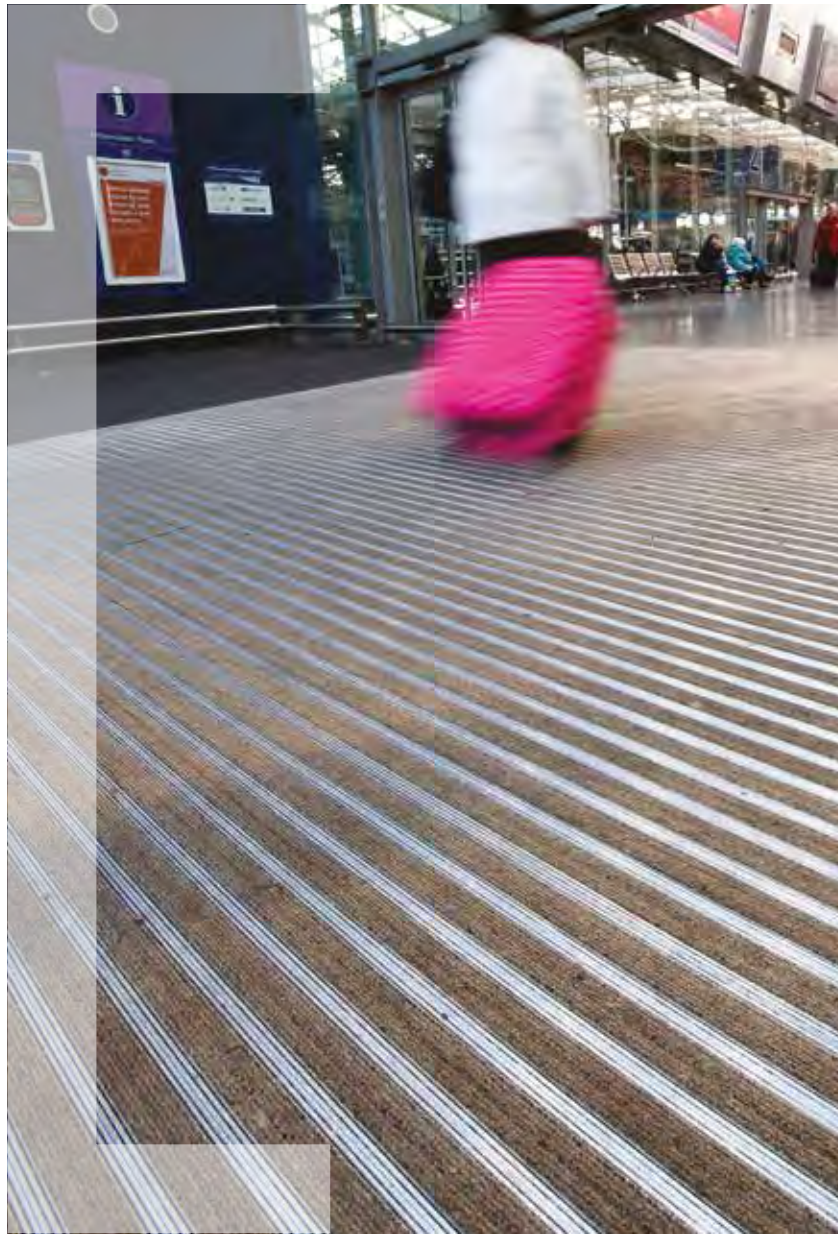
Tuftiguard HD design

As the Classic offer but with an additional choice of nine wiper strips to reflect interior colour schemes



	Tuftiguard HD Classic	Tuftiguard HD Plain	Tuftiguard HD Design
Suitable for external / interior entrances			
Reversible?			
Colours of wiper strips available	Buffed for maximum dirt hiding	Unbuffed rubber for use in external entrances	Additional choice of 9 colours to reflect interior colour schemes
Wiper strip format	Only available in closed format with double wiper strips to ensure maximum performance and durability		
Colours of scraper bars available	Aluminium		
Depth options	12mm or 17mm		
Construction of mat	CLOSED		
Where to use?	Very heavy and intense traffic areas with high point loading.		

* For details on FESSI's please visit www.forbo-flooring.co.uk/FESSI



- The ideal matting solution for entrances with **heavy duty loads** and **intense pedestrian and/or wheeled traffic**.
- Patented aluminium scraper bar ensures it's the **strongest type of matting in the Nuway range**, and possibly in the UK.
- Tests have confirmed that Tuftiguard HD **can withstand static loads of up to 900kg/cm²** compared with the maximum load of 200kg/cm² for standard Tuftiguard mats.
- Aluminium scraper bars have special ridges which **effectively remove dirt** while also being **smooth enough for wheeled traffic** to move easily.

CONSIDERATIONS

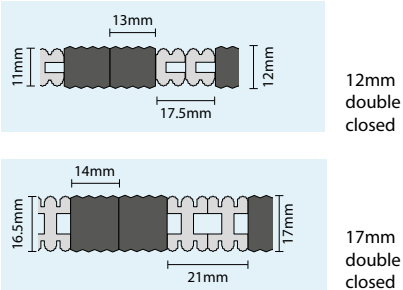
As with all aluminium matting systems of this type, in very brightly lit areas, the strong contrast between a light aluminium scraper bar and a dark wiper strip can sometimes create a strobe effect which should be prevented.

To avoid disorientating pedestrians affected by this type of visual disturbance, consider using a less contrasting wiper strip.

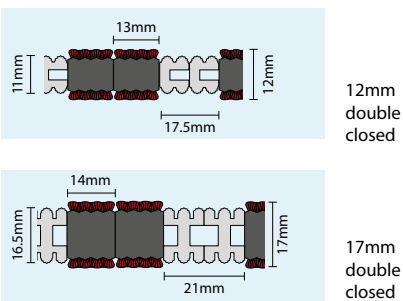
DESIGN OPTIONS



Tuftiguard HD plain – dimensions



Tuftiguard HD classic/design – dimensions



All dimensions are approximate.

Scraper bars
Universal



Aluminium

Wiper bar options
Plain and Classic



Unbuffed (Plain)



Buffed (Classic)

Wiper bar options
Design



Charcoal Ocean Petrol Evergreen Willow



Scarlet Claret Violet Sienna

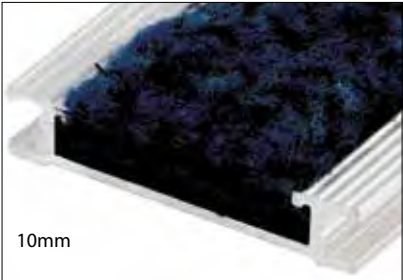
For more detailed information on the dimensions of our Nuway Tuftiguard Entrance Systems, please visit www.forbo-flooring.co.uk/downloads, or contact our Entrance Flooring Systems Customer Service team on **01773 740 688**.



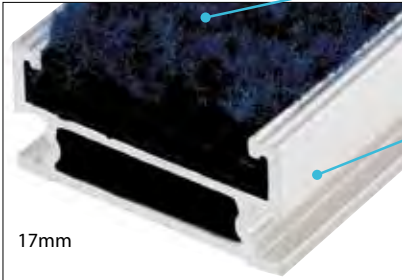
- **Ultragrip rubber inserts** have been tested using the Pendulum (the HSE recommended test method) in accordance with BS7976-2 and the UK Slip Resistance Group Guidelines and **offer a low slip risk** in wet and dry conditions.
- **Ultragrip rubber** offers excellent sure footing and is **ideal for multi-directional entrances**. Its high rubber content prevents it getting slippery when wet.
- **Ultragrip rubber** offers improved **underfoot comfort** and **moisture removal** due to its 'pocket' design. It also offers **excellent fire rating properties**.
- A choice of **6 Coral classic inserts** allows colour co-ordination with matching Coral classic sheet product used in the secondary matting zone.
- All four elements, Coral, bristles, rubber and Ultragrip rubber, **can be mixed and matched** to create the precise entrance system to meet your needs.
- All inserts can also be **replaced on site** helping to extend the wear life of the product.
- Open construction **Connect** mats **can be rolled up** for ease of cleaning
- The patented product design ensures that the **mat can only be rolled inwardly**, helping **to prevent the bow wave** that can occur on other rollable products.

Nuway connect is a very versatile roll-up single sided entrance system that's easy to shape on site, making it ideal for awkwardly shaped entrances. It's also available with a wide choice of inserts allowing the mat to be adapted to suit individual requirements.

Connect carrier component structure



10mm



17mm

Inserts

Available with a choice of 6 Coral classic inserts and 4 row bristle along with Ultragrip rubber and rubber inserts for internal and external use.

Carrier Section

Low lustre aluminium anodised finish helps to prevent a strobing effect in bright conditions. Note: there is a slight difference in the profile between 10mm and 17/22mm Connect. (see image on the left).

Choose your combination

Nuway Connect is one of the most flexible single sided entrance mats available in the UK. With a choice of 9 inserts, 3 heights and 2 constructions, a Nuway Connect mat can be precisely tailored to your individual requirements.

1
PICK YOUR
INSERT



Coral Classic

- For picking up moisture and fine dirt
- For interior use only (colours are shown overleaf)



4-row bristle

- For removal of coarse dirt
- For exterior and interior use
- Available on 17mm and 22mm only



Ultragrip

- Ideal for multi directional entrances
- Proven low slip risk
- Fire rating of Bfls1



Rubber

- For exterior and interior use

2
MIX & MATCH
YOUR OPTIONS



The following options are available if required

- Ultragrip or rubber with bristles (alternating)
- Textile with Ultragrip, rubber or bristles (alternating)

3
CHOOSE YOUR
CONSTRUCTION



Open

- Collect dirt in the matwell rather than on the surface
- Easily rollable for cleaning



Closed

- Improved functionality of the mat as there is a greater surface of inserts

4
SELECT YOUR
HEIGHT











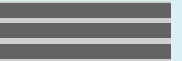






10mm



17mm



22mm

	Connect with Coral textile inserts	Connect with bristle inserts	Connect with Ultragrip and rubber inserts
Suitable for external / interior entrances			
Inserts available	coral® classic 6 colours (see right for details)	 4-row bristle	 Fluted rubber and slip resistant rubber (Ultragrip)
Replaceable inserts			
Carrier	 Low lustre aluminium		
Construction of mat	OPEN  or CLOSED 		
Height options	 10mm  17mm  22mm		
Mix and match inserts	 Offers a mix and match option including bristle and new Ultragrip rubber.		
Rollable	 Rollable for ease of cleaning in open construction only		
Where to use?	 Very heavy traffic.		

* For details on FESSI's please visit www.forbo-flooring.co.uk/FESSI


CONSIDERATIONS


If you are considering Connect for an exterior mat in an exposed entrance we recommend using Ultragrip rubber or a combination of rubber and bristle for maximum slip resistance.


THE **FLEXIBLE, RIGID** ENTRANCE SYSTEM





Coral Classic colours available in Nuway connect



4701 anthracite



4730 raven black



4727 navy blue

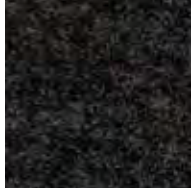

Ultragrip rubber


Rubber


Bristles


4764 taupe


4744 espresso


4750 warm black

Specials
Different colours of inserts are available at a small price premium and there is also the possibility of adding anodised aluminium branding strips. To find out more, please contact our Entrance

NUWAY SITE PREPARATION AND MATWELL MEASURING

Nuway mats are made to order, assembled in the UK at our Telford plant to the client's precise specification and template.

Simple, rectangular mats should be easy to measure. For more complex and unusually designed entrance areas, Forbo can provide help with matwell measuring and templating. Please contact your Forbo Business Area Manager to find out more.

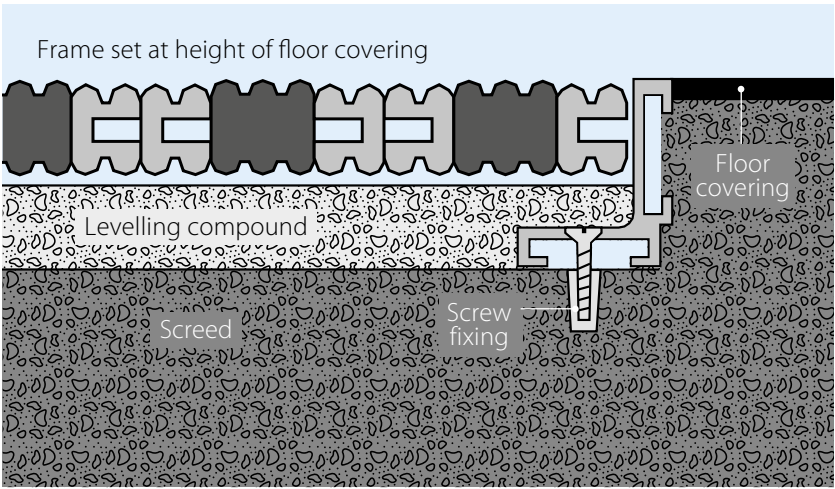
It is also important to ensure that the site where the mat is to be installed has been correctly prepared.

Matwell subfloors must be of sound construction, dry, smooth and level, clean and free from contamination. For internal mat installations the screed should be flat and level to accommodate the depth of the chosen mat. For external mat installations the screed should again be flat and level to the depth of the frame, and consideration must be given to drainage.

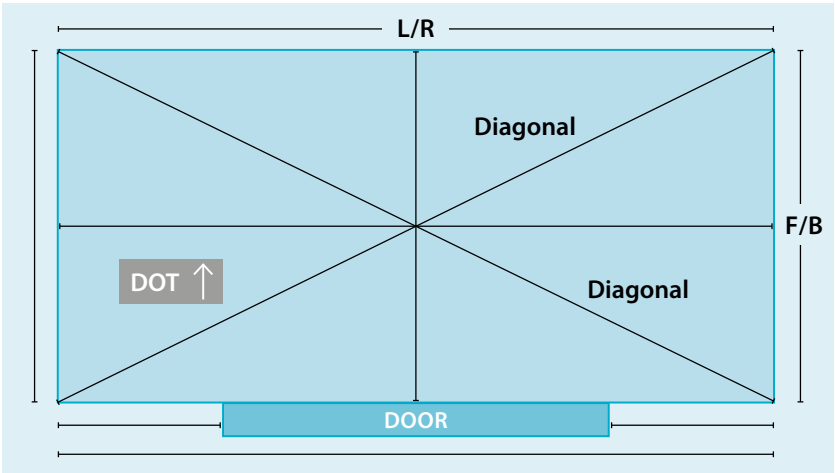


BIM Models

BIM models are available for our Nuway ranges at www.bimstore.co.uk



Typical cross section of frame set into screed with screw fixing



Matwell measuring

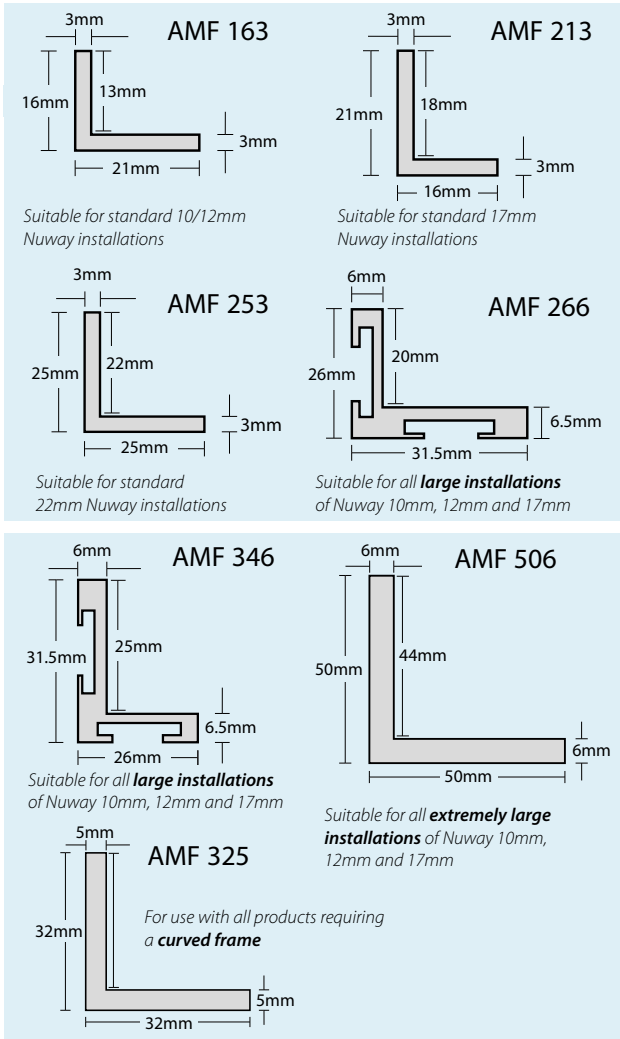
Key DOT = Direction of traffic

NUWAY ACCESSORIES

Recessed frames/installations

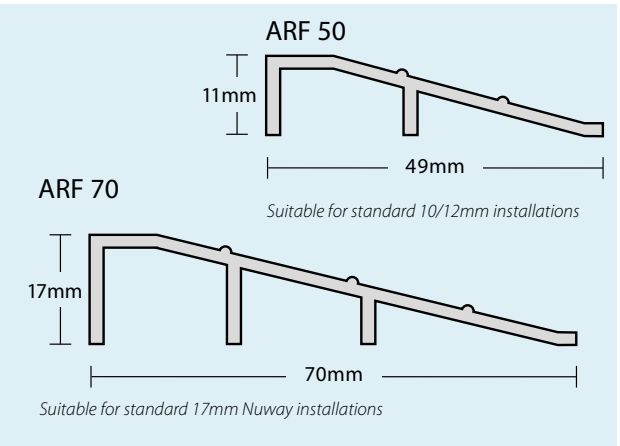
Nuway matwell frames are available in aluminium and are designed to anchor into sand and cement screeds for secure site installation. All frames are custom built to fit specific site requirements, with curved frames available to special order.

Nuway frames are supplied in kit form for ease of transport, storage and on-site assembly.



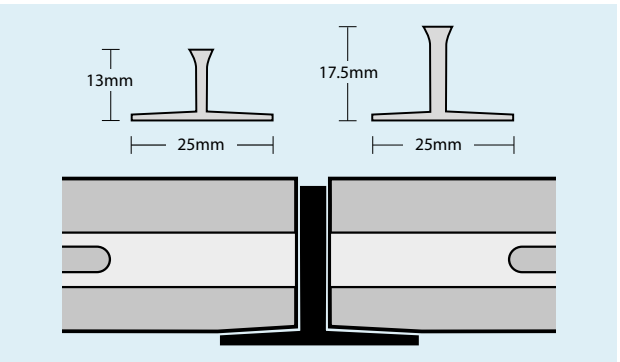
Ramped frames and surface mounted installations

Internal and external ramp frames are supplied mitred and drilled. Straight cut, undrilled lengths are also available, allowing on site adjustments. Available in aluminium, the surface is ribbed for enhanced grip.



T-Bars

Nuway T-Bars provide separation between modules to facilitate easy removal for cleaning and reversibility. Tuftiguard T-Bars are available in aluminium or black anodised aluminium. Grid T-Bars are available in aluminium. Please note that T-bars are automatically included in each order.



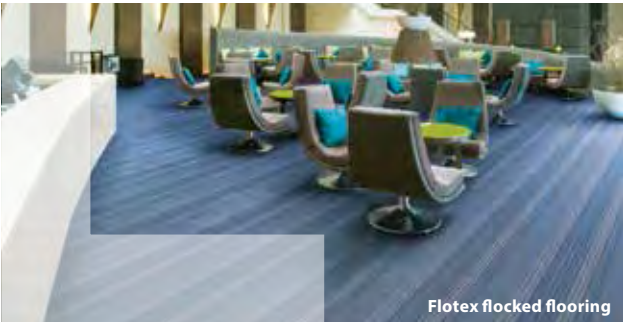
OTHER FORBO BRANDS



Linoleum



Project vinyl



Flotex flocked flooring



Carpet tiles

Linoleum
marmoleum®
marmoleum® modular
marmoleum® decibel
marmoleum® ohmex
bulletin board®
furniture linoleum

Entrance flooring Systems
coral® – Textile clean-off products

Project vinyl
eternal – General purpose vinyl
allura – Luxury vinyl tiles
allura flex – Loose lay vinyl tiles
step® – Safety vinyl
sarlon® – Acoustic vinyl
colorex® – Static control flooring
Bespoke digitally printed vinyl

Carpet tiles
tessera® – Tufted carpet tiles
westbond® – Fusion bonded carpet tiles

Flotex flocked flooring
flotex® colour
flotex® linear
flotex® naturals
flotex® vision
flotex® sottsass



Coral brush pure 5719
marmoleum fresco 3866



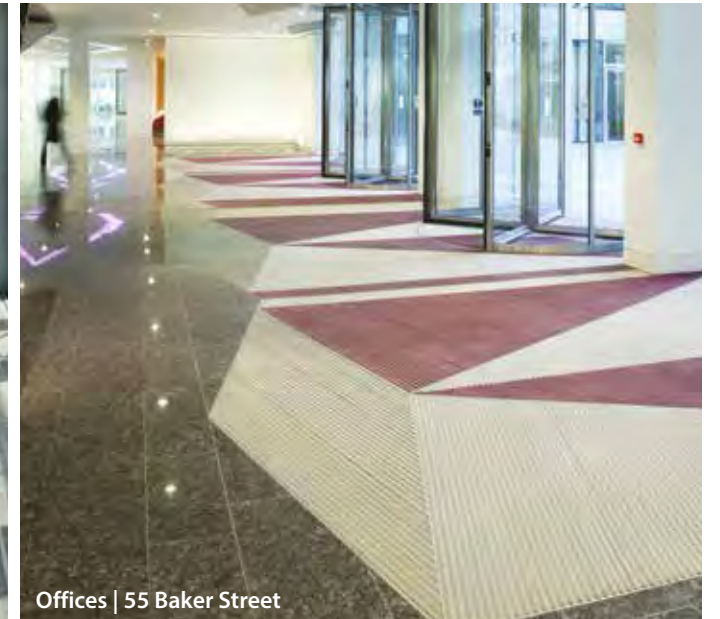
Leisure & Hospitality | Titanic Exhibition, Belfast



Education | Wellington Academy



Leisure & Hospitality | Aviva Stadium



Offices | 55 Baker Street



Shopping Centres | The Bentall Centre



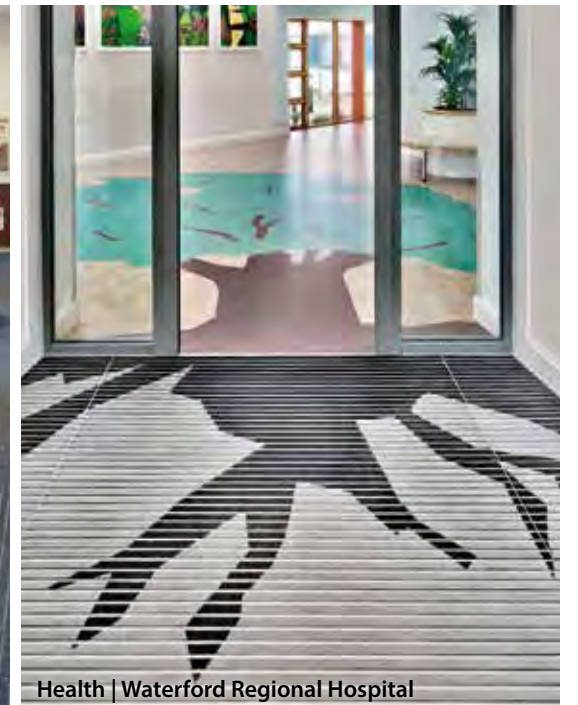
Transport | Network Rail



Retail | Supermarket



Shopping Centres | Castle Quay



Health | Waterford Regional Hospital