



Jaymart

**Aluminium
Entrance
Matting
Systems**

**SPECIFICATION
GUIDE 2023**



Jaymart Rubber & Plastics Ltd was founded in 1967 and has supplied mats throughout the UK, Europe and the world.

We have a vast range of products that can be customised for every application imaginable.

We provide expert analysis and advice in creating a safe, attractive and vibrant matting system to any entrance for any building.

Service, quality and reliability are the foundations of our business.

Jaymart Entrance Matting Systems offer up to date designs and colours to make an entrance of any building.

Our aluminium profiles are the heaviest on the market and can perform in the most demanding of applications, keeping dirt and moisture from entering the building, reducing cleaning costs, risk of slip/ trips and falls and protecting expensive internal floor finishes.

Jaymart have over 55 years of advising on the right entrance matting system for your building



Make an entrance and the right first impression with Jaymart Entrance mat systems



Healthcare



Commercial



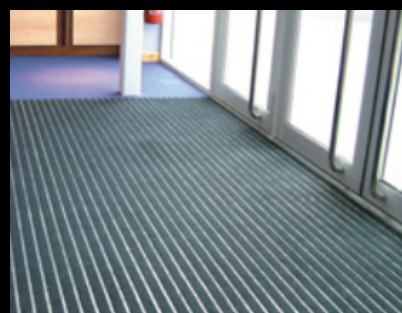
Retail

The entrance to a building has to be pleasing aesthetically and functional - able to remove dirt and moisture from traffic entering a building, helping to reduce cleaning costs, reduce the use of harmful cleaning chemicals and increase the lifespan of the internal floorcoverings reducing the amount of damaged or worn flooring to landfill. The Jaymart entrance mat systems are suitable for every type of building able to compliment any entrance or make a feature whilst doing the important work of keeping dirt out.

We offer luxurious and prestigious systems that make a statement to more modest but effective sheet matting options used in the aluminium mat scraper rails so you can co-ordinate zonal matting or as standalone matting. There is a Jaymart mat for every entrance on every type of building.



Leisure



Education



Transport



Hotels



Shopping Centres

Jaymart

Key Features

They trap up to 90% of dirt and moisture, therefore reducing cleaning costs and use of harmful cleaning chemicals

They help to protect the expensive floor finishes reducing the amount sent to landfill..

The panel construction, which allows for rib alignment between panels, renders them stronger than wired construction types which can snap or bend. This also facilitates replacement of insert strips in the unlikely event of damage or desire to change colour scheme. Leading to a useful lifespan of 30 years when refurbished.

This also allows for more elaborate designs to be incorporated if required.

The Insert materials can be customised to maximise performance of the product and if required to make a statement upon entering the building.

Logos can easily be incorporated into the mat at very reasonable costs.

They can be surface mounted or installed in a recessed matwell.

The mats incorporate 100% Recycled Aluminium and are also easy to recycle after useful life, and so are an environmentally friendly product.

Now can be anodised in colours including antique bronze and black.

10 year warranty.





Environmental Impact & Sustainability

Our Products Use 100% recycled aluminium and can be recycled after use making our aluminium mat products very environmentally friendly. This combined with the ability to replace the insert material rather than replacing the whole mat, means that although not directly eligible for BREEAM Credits selecting Jaymart will help in supporting your BREEAM certification.

We manufacture in the United Kingdom to precise specifications/ measurements. This means Jaymart can reduce waste and transport.

Our products are extremely Hard wearing and will reduce the need for frequent replacement to support BREEAM MAT 05 criteria and also minimise the use of harmful cleaning chemicals and cleaning/ maintenance costs for the end user.

BREEAM MAT 01 addresses the environmental impact through the life cycle of the product. The Jaymart aluminium entrance matting system have the ability to refurbish rather than replace means that our products can further support your aims. It will also help with meeting BREEAM MAT 06 requirements. We can also offer products made from natural inserts from sustainable sources to further meet environmental aims. The expected useful lifespan when refurbished is 30 years approximately dependent on wear and correct maintenance being carried out.



Manufactured in United Kingdom



100% Recycled Aluminium



100% Econyl Recycled Nylon Yarn

ECONYL® Regenerated Solution Dyed Nylon is produced using nylon waste which is recovered from oceans and from landfill. Waste such as fishing nets, fabric scraps, carpet and industrial plastic is recovered, sorted and cleaned. Through a regeneration and purification process, the nylon waste is recycled back into its original purity. ECONYL® Regenerated Solution Dyed Nylon is processed into carpet yarn and used to manufacture several of our matting ranges.





INTRODUCTION

Entrances are the first point of contact a visitor will have with a building. They will traffic in dirt and moisture either on the feet or by wheeled traffic entering that building. These in turn can create potential issues and hazards.

This guide aims to highlight the issues facing Architects and Interior Designers in creating a welcoming entrance whilst also helping to reduce the risk of slip accidents and reducing the use of harmful cleaning chemicals – helping to reduce harm to the environment and reducing lifetime costs such as cleaning and replacement of damaged floorcoverings.

The learning Objectives are

- 1. Be aware of what potential issues and hazards entrance matting will solve and how entrance matting works.**
- 2. How different types of traffic, volume of traffic and flow of traffic need to be taken into account when specifying entrance matting.**
- 3. Gain knowledge on how much matting to specify**
- 4. How to take current regulations into account when specifying entrance matting.**
- 5. Understand how different types of floorcoverings need different wiper materials to optimise performance.**
- 6. Understand different types of construction along with advantages and disadvantages of each type of system.**
- 7. Understand how different building types have different matting requirements and how to best specify the right product for the right application.**
- 8. Have an overview of how entrance matting can help reduce lifetime costs, improve safety and prestige of a buildings entrance.**
- 9. Have an understanding of how you can personalise entrance matting to become a design feature or enhancement to a building, helping traffic to flow through the entrance or how entrance matting can blend into an environment.**
- 10. Understand how the Jaymart systems can help with Breeam certification for your project.**
- 11. Have an overview of projects where Jaymart have worked on and helped to reduce the risk of slip accidents and cleaning cost whilst enhancing the entrance to a building by offering superlative performance, durability and appearance.**



SECTION ONE

Issues & Hazards

Compared with the other challenges and issues a specifier has to deal with entrance matting can understandably often be an after thought or a go to solution rather than getting the right product for the right application. When specified correctly entrance matting will often go unnoticed quietly helping to reduce the risk of slip accidents, reducing use of cleaning chemicals and costs, reducing amount of floorcovering sent to landfill and helping to create the right first impression of a building.

It is often only when the mat is not working that you notice the entrance and for the wrong reasons. How many times have you walked into a building and noticed yellow warning triangles on the entrance matting or on the adjacent flooring?

Signs warning you to take care of wet floors. This should be a sign to say the entrance matting is not performing as it should be!

A badly installed or under-performing mat can undo all the hard work and attention to detail, on an otherwise amazing project that you have worked so hard to deliver for your client.

There are two basic fundamental issues to overcome these are.

Dirt & Moisture

Dirt

Dirt can cause the rest of the entrance and also potentially the building to look shabby and untidy which in a commercial application can create the wrong impression. It also raises cleaning costs which with the increase use of cleaning chemicals can harm the environment as well.

It also has the potential to damage expensive floorcoverings as grit damages wooden floors and tiles. More than 70% of dirt and moisture in buildings is tracked in by pedestrian and wheeled traffic.

It can cost for every 1Kg of soil tracked into a building are approximately £720 to remove it. An effective entrance matting system will increase the life of all floorcoverings, reducing cleaning and maintenance costs and the amount of damaged flooring sent to landfill.

An entrance mat is also the first point of contact visitors have with that building and first impressions do count!

MOISTURE

The ingress of water and dirt cannot only cause the entrance and surrounding areas to look unsightly and help to create a damaging first impression upon entering the building, it can also cause slip, trips and falls.

With wet floors the risk of aquaplaning is increased – particularly on hard floors such as ceramic, LVT, Stone and Terrazzo flooring. According to the health and safety executive around 90% of slip accidents in buildings occur when floors are wet.

An effective well thought out entrance matting system can reduce this amount by around 80%. Alleviating the potential for injuries and also possible litigation. Dirt which is also in moisture will also ingress further into the building increasing cleaning costs and potential damage to very expensive floorcoverings

The basic fundamental actions that an effective entrance matting should do are

- Scraping – creating effective resistance to draw off dirt and moisture.
 - Drying – trapping moisture from entering a building
 - Brushing – to aid the drying process
- An effective entrance matting will also improve safety by helping to reduce the risk of slip accidents in a demanding environment where dirt, debris and water are ever present

Why Use Entrance Matting ?



Increase in Public Safety

Nearly 90% of slip accidents happen when floors are wet or contaminated

An effective entrance matting system can reduce the risk of slips and falls whilst helping to stop the ingress of moisture and soil into a by up to 90%



Removes Dirt & Moisture - Reducing Cleaning Costs

For every 1kg of soil ingressed into a building it is estimated that it costs approx £720 per Kg to remove it.

An effective entrance matting system can reduce significant ingress of soil into a building reducing cleaning costs and potential use of cleaning chemicals - which could impact the environment.



Protects Internal Floor Finishes

Every visitor to a building will ingress dirt and moisture - if it ingresses on to the expensive floor finishes inside the building it costs money to remove it and also could damage the floor finishes.

An effective entrance matting can provide an effective barrier matting to foot borne dirt and moisture - preventing premature damage and need to replace expensive internal floor finishes



Creates The Right First Impression

Does the entrance/ reception area give the right first impression of your business and services?

The right entrance matting can help create the right first impression as it is the first point of contact visitors have with your building. This can help by making sure reception and public areas are safe clean and look attractive.



Merry Hill Shopping Centre,

SECTION TWO

Types of Traffic Volume Of Traffic and Flow of Traffic

Entrance matting should be able to allow both foot and wheeled traffic to pass across it unhindered to meet the latest regulations



Consideration to all types of traffic should be made bearing in mind the level of wheeled traffic and also if heavy loads are to be brought in across the entrance matting. Some design of mats can be damaged with heavy point loads for example a wired system.

EXAMPLE APPLICATIONS



Offices

An office will typically have a low level of wheeled traffic with a high volume of pedestrian traffic. It can also have the potential need to accommodate some heavy goods or deliveries going across it. An office will typically have a low level of wheeled traffic with a high volume of pedestrian traffic. It can also have the potential need to accommodate some heavy goods or deliveries going across it.

Supermarkets



Jaymart Alligator Raincheck Used by Marks and Spencer

A supermarket will have a high volume of foot traffic and wheeled traffic that can be multi-directional.

The type of entrance matting system should be dictated by the volume and concentration of traffic that can be expected within that area.
A main entrance to a busy office or store will need a heavy duty primary system consisting of a 3 or 4 stage system

Amount of Matting

Consideration should be given to the amount of entrance matting required at the design stage as amending this after installation will be inconvenient and costly.

Width - matting should cover the entire entrance of a building, including side entrances so that traffic cannot enter without passing over the mat.

Length (Front to Back) - critical to the function of the mat the length will vary dependent on volume of traffic crossing the mat along with consideration to peak times of traffic flow.

HSL (Health & Safety Laboratory) and EFSA (Entrance Flooring Systems Association) have provided the following guidance based on peak flow rates per hour.

Volume Of Traffic (Application)	Number Of People Per Hour	Minimum Length (Front to Back)
Low	78	3 - 4 Metres
Medium	400	6 - 7 Metres
High	800	8 - 10 Metres

Please note

It is not always possible to install the correct required amount of primary entrance matting. In these circumstances consider using a hybrid insert product to optimise performance or use a secondary barrier mat sheet material in conjunction with the primary entrance matting system. For more information please consult Jaymart.

Matwell Sizing

Visitors hardly ever stop and wipe their feet in a commercial environment so getting the right size matting is critical. Getting as many steps as possible on the entrance matting helps to reduce the ingress of dirt and moisture into a building.

Every building has different types of traffic and volume. Once this is understood and the most appropriate entrance matting system selected for use, the next consideration is size of the entrance matting system.

The entrance to the building is also where first impressions of a business or organisation is created, an entrance mat can form part of this image statement. Jaymart's range of entrance matting systems allow you to make an incredible design statement as well as comply with BS8300 and BS7953.

MINIMUM 2100 mm

BS 7953 minimum recommendation 2100 mm

This will allow for a wheel chair full rotation on the matting (based on a standard 26" wheelchair wheel)

Well Standard 3000mm

Well Standard minimum Recommendation 3000mm

The AIR concept states that, 'All regularly used entrances to the building that have pedestrian traffic to the exterior should use an entryway system composed of grilles, grates, slots or roll out mats that are at least the width of the entrance and extend 3 m [10 ft] in the primary direction of travel.

Optimal Recommendation 5500mm +

Optimal Recommendation 5500mm +

Depending on the application / factors involved in entrance area / volume of traffic/ type of traffic and flow (Please see other consideration section for more information on what to consider)

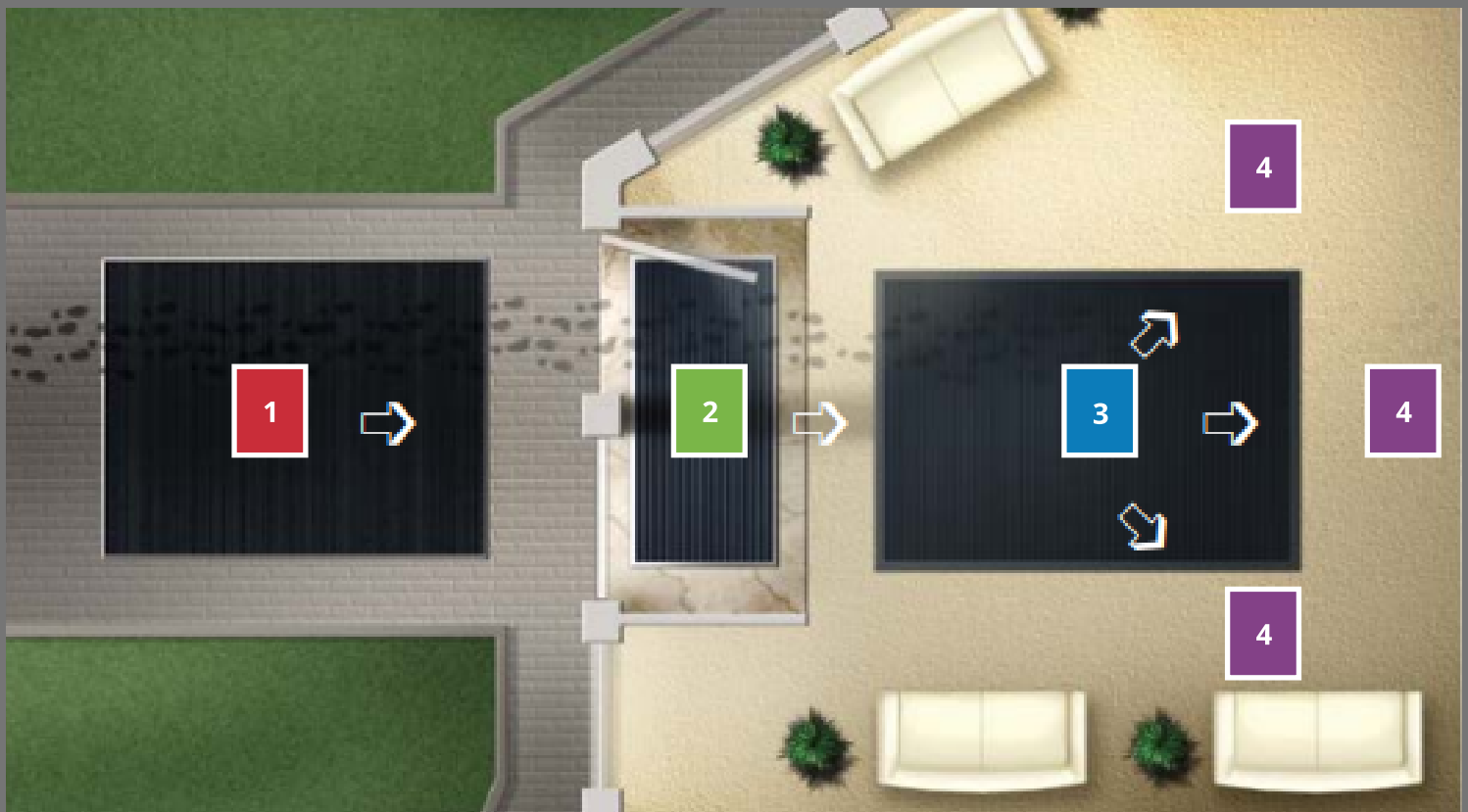
Our 4 step process to a cleaner environment

1

The best way to keep your premises clean is to stop dirt from even getting through the front door. Effective exterior matting scrapes clean and wipes dry, leaving the worst dirt and grit outside, and allowing subsequent interior matting to clean even better.

2

Working in a similar way to exterior matting, this is similarly tough and durable matting that carries on the work to remove the last of the most damaging soil and grit, and continue the drying process.



3

With the worst of the damp and debris now dealt with, secondary internal matting is a high-specification, high-performance product that finishes the dusting and drying

4

The foyer is one of the highest traffic areas in your building so, however effective your entrance matting, easy to clean, highly durable and attractive carpet that always looks its best will help you make a great first impression – every time.

System	External Stage 1	Internal Stage 2	Internal Stage 3	Internal Stage 4
Street King				
Street Beater				
Alligator Track				
Allgator Raincheck				
Alligator New Raincheck				
Alligator Raincheck Fleck				
Alligator Forefront				
Alligator Trapper				
Alligator Interzone				
Alligator Warcord				
Alligator Dirtcheck				
Grime Raincheck				
Grime New Raincheck				
Grime Raincheck Fleck				
Grime Grabber				

Please see individual product information for more details

System	External Stage 1	Internal Stage 2	Internal Stage 3	Internal Stage 4
Grime Trapper	✓	✓		
Grime Stopper	✓	✓		
Grime Warcord	✓	✓		
Grime Dirtcheck		✓		
Grime Track	✓	✓		
Grime Design		✓		
Grime Capra		✓		
Raincheck		✓	✓	✓
New Raincheck			✓	✓
Raincheck Fleck			✓	✓
Ingenius			✓	✓
Contract King			✓	✓
Dirtcheck			✓	✓
Warcord			✓	✓
Textra			✓	✓

Please see individual product information for more details

System	External Stage 1	Internal Stage 2	Internal Stage 3	Internal Stage 4
Zigazaga			✓	✓
Brush Well			✓	✓
Polyrib			✓	✓
Symphony			✓	✓
Kum Kleen			✓	✓
Supertwist			✓	✓



Please see individual product information for more details

Peak & Continuous Flow Types Into Buildings

Different buildings will have different types of traffic flow

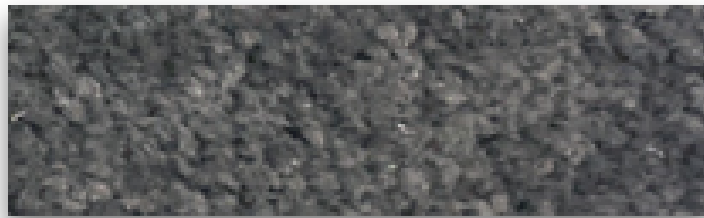
Example 1) Office Building

Example one – office building

An office will typically have peak flow - where 2 - 3 times a day there is a concentration of traffic into the building - this means outside of these times there is time for the insert material to dry allowing optimal consideration - consideration should be made to possible wheeled traffic into building ie wheelchairs and also stationary/ goods entering the building. Also adequate heating such as an air curtain will help to ensure matting dries quickly and continues to perform at an optimal level.

The choice of textile wiper could be super absorbent as the insert would have more time to dry between peak traffic flow.

Our raincheck is an example of a super absorbent material designed for optimal moisture retention.



Example 2) Airport

Example two – busy commercial application - airport

This type of building will have a continuous flow of traffic throughout the day with heavy trolleys/ goods being brought in on the entrance matting. Making sure a heavy duty entrance matting system should be used using a zoned system or alongside a secondary sheet matting to optimise moisture retention. It is critical that there is heating/ air curtain to aid drying of inserts to ensure optimal moisture absorption. Also use of quick drying inserts that are able to cope with this type of application will ensure the entrance matting can do its job of stopping dirt and moisture entering a building, lowering cleaning costs, and helping to stop slip accidents in these busy areas of a building. It is critical that the size of the entrance matting is adequate for the volume of traffic, type of traffic, internal and external flooring types.

The choice of textile wiper should be limited on the primary matting to a quick drying material that won't become sodden and ineffective on very wet days with a more absorbent secondary matting

Our Ingenius is an example of a quick drying material, still with excellent absorbency but able to take the demands of continuous flow building types.

Jaymart are able to advise in further detail recommendations for insert type, size of entrance matting and type of aluminium extrusion suitable for your project and can also work with you on individual bespoke designs and systems for your project.



Please find a case study where we can demonstrate how we were able to work with the architect and design a system to optimise performance.

Deutsche Bank London

We worked closely with the Building Manager to resolve issues with dirt and moisture being ingressed into the building causing health and safety issues with potential for slips, trips and falls on the wet stone floor whilst also increasing prestige and reducing cleaning costs and use of harmful cleaning chemicals.

Due to the area being in constant use we optimised the performance of the mat by using three different inserts

Stage 1) Alligator Track- The rubber insert was used in the external area and first half of the revolving door to increase resistance to draw off dirt and moisture before it entered the building. Using this insert also reduced the risk of slip trips and falls.

Stage 2) Alligator Forefront – The Ingenius insert was used in the first part of the external mat by actively brushing and drying traffic as they passed across this section optimising the drying process.

Stage 3) Alligator Raincheck – The final stage absorbed the residue of moisture ensuring traffic passing across it was as dry as possible before walking on the stone floors.

By incorporating these three stages within in one mat, traffic passed across the entrance mat seamlessly so that when it came to the stone floor, all of the dirt and moisture was removed. This helped enhance the entrance to the building, increasing prestige, reducing the risk of slip, trip and falls whilst also reducing cleaning costs and harm to the environment from reduced use of harmful cleaning chemicals.

tsche Bank 



Deurche Bank, London Wall Alligator Track , Forefront and Raincheck

Choosing the right entrance matting

Legislation and Entrance Matting Standards To Consider

Entrance Matting legislation is not the most glamorous or exciting topic, but it is essential to understand the key standards when specifying entrance matting for entrances on your projects.

Every entrance to a building is different, and therefore the combination of size, shape and recommended products will vary dependant on factors including location, volume and type of traffic.

Entrance Matting Legislation doesn't dictate the type or size of matting to be used but outlines the key standards that need to be considered when writing the specification.

Jaymart's range of entrance matting systems fully comply with BS7953-1999

BS 7953:1999

Entrance Floor System, selection, installation and maintenance

The standard outlines why Entrance Matting should be specified along with the physical qualities any entrance matting must comply with. For instance, it should:

- Reduce the ingress of soil and moisture into the building
- Reduce slips and trips by reducing the amount of soil and moisture that is tracked onto hard surfaces
- Increase the life of internal flooring by preventing abrasive dirt from entering
- Reduce cleaning requirements as less dirt enters the building



BS 8300-2:2018

Design of an accessible and inclusive built environment

This standard, combined with BS 8300-1:2018 (external), explains 'how buildings, their approaches and immediate surroundings can be designed, built and managed to achieve an inclusive environment'.

It includes some important considerations in relation to Entrance Matting:

- The threshold needs to allow for a safe and step-free access, which means doors should be easy to open and have sufficient provision for drainage.
- An appropriate Entrance Flooring System to be installed to remove water and debris by foot and wheeled traffic in commercial buildings and buildings used by general public. This needs to account for the volume of traffic flow, the distance required to accommodate the circumference of a large wheelchair wheel (a minimum of 2000mm).
- 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. This should be securely fixed to the floor to avoid the risk of slips and trips.
- Deep pile carpets and coir matting should not be used on the surface of the floor or within a mat well.

WELL Building Standards

The WELL Standard is made up of 10 Concepts, each covering features with distinct health targets, including advice on how to create a healthy entrance.

The AIR concept states that, 'All regularly used entrances to the building that have pedestrian traffic to the exterior should use an entryway system composed of grilles, grates, slots or rollout mats that are at least the width of the entrance and extend 3 m [10 ft] in the primary direction of travel.'

The standard also provides guidance on cleaning protocol for Entrance Mats.



BREEAM points and LEED Credits

Entrance Matting is not directly eligible for BREEAM points or LEED credits, however, by selecting the right combination of products it can support and contribute to green building practices by utilising sustainably produced and recycled materials such as aluminium and Econyl® carpet fibres.

Need More Guidance?

For help specifying the right entrance entrance system for your project. please contact our team or download our online CPD article that can be done at your convenience at Barbour product search. We can also deliver the seminar at your premises in a 35 - 40 minute presentation,.



CPD SEMINAR

Entrance matting systems

How to create a safe and welcoming entrance area

Learning Objectives

- ✓ Be aware of potential issues and hazard hazards
- ✓ Understand how type of traffic, volume of traffic affects entrances
- ✓ Understand different floors need different types of matting
- ✓ Understand different construction/ types of entrance mats
- ✓ Understand regulations and impact on specification
- ✓ Understand how entrance matting can reduce costs, improve safety, help with sustainability and environmental credentials of a building



Delivered in a convenient way

In Person or by online article

Jaymart can deliver your cpd in person at your premise, online live CPD or an online cpd article at your convenience.





A Lunch & Learn seminar is an informal opportunity for Jaymart to bring an exhibition of products directly to you.

We have made them to be flexible and informative and they can be arranged at a time and date to suit you. They typically last around 2 hours and in this time people drop in as they wish.

Jaymart personnel are available to discuss our products generally or address specific requirements.

They are often booked over lunch time and we are happy to work with you to provide lunch or if you prefer a different time, a variety of snacks.

Call to book please call 01985 218994 or email sales@jaymart.co.uk

Jaymart have a number of free resources available from short but informative in person presentation available for practices with lunch, online CPD articles that can be done with the minimum of fuss, at a time that suits and our free specification guide on how to specify entrance matting.



Jaymart also offer an online CPD Article via Barbour Product Search. Please click link to the left to access this non intrusive way of getting CPD points.

To download our specification guide for entrance matting please click the Jaymart logo to the left to download this resource.

SECTION THREE

Installation and Construction Types

Surface or recessed installations

Aluminium mats can be installed dependent on the application and type of floor finishes in either a recessed matwell or surface mounted with a ramp edge or surface finish. Any up-stand must be rounded/chamfered and not over 5mm as it can become a trip hazard.

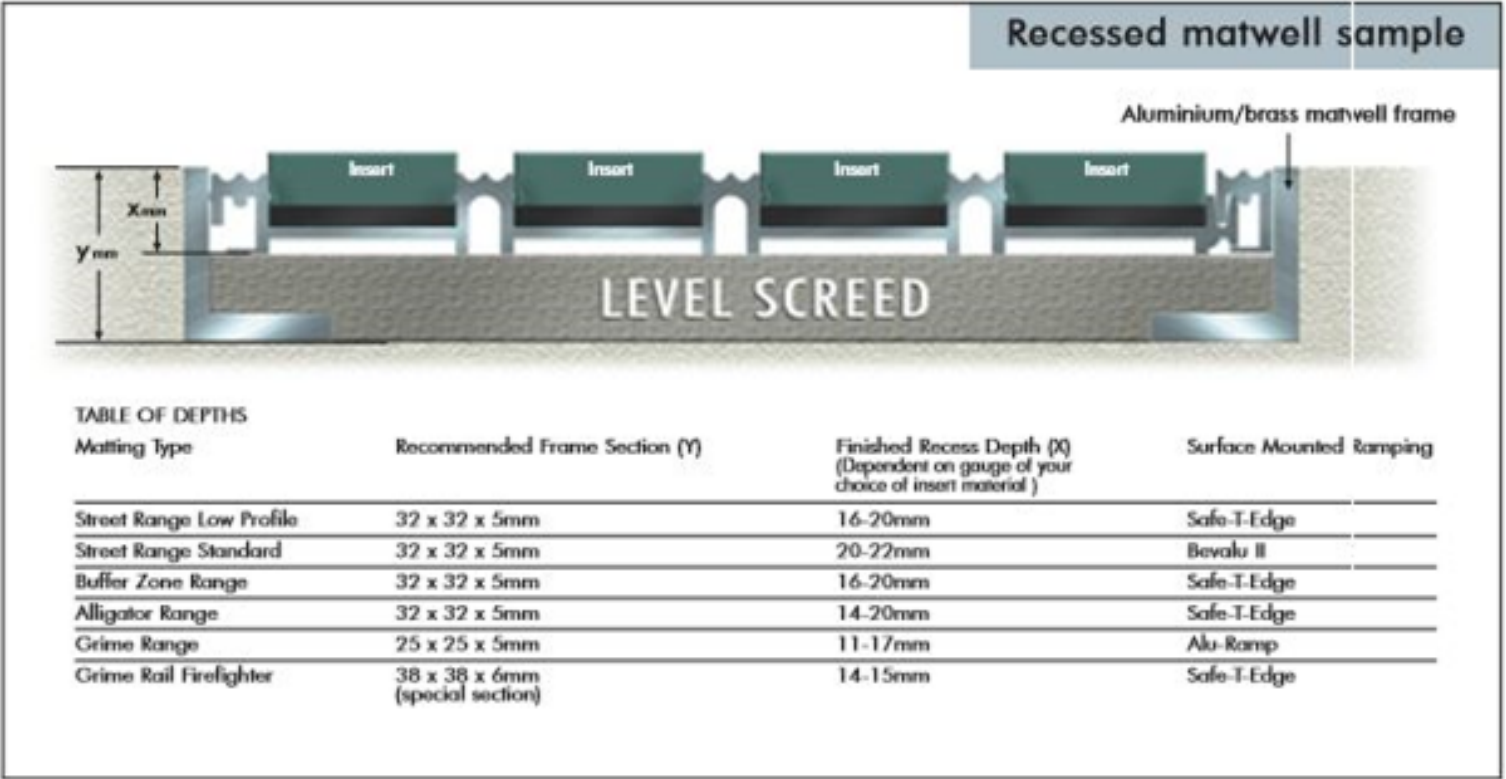
When specifying these mats as well as shaping to any design you can also add lights to make it a feature



Recessed Matwells

The matwell is formed with the entrance mat gauge in mind, usually around 50 – 75mm deep. On new builds the matwell is screeded up to the matwell frame height and the frames fixed so they are level with the height of the floor finish being fitted. The matwell frame is fitted by being screwed into the floor. Usually a screed is then used to fill the matwell to allow the height of the gauge of the entrance matting.

The diagram below shows a profile of how this looks



Example

The matwell frame is 25mm x 25mm x 5mm and the matting is 15mm. The matwell on the new build is 50mm. The floor finish is 2mm deep with a 3mm latex screed. This means the total height with frames fitted to the height of the floor covering is 5mm (allowing for the flooring element – 5mm)

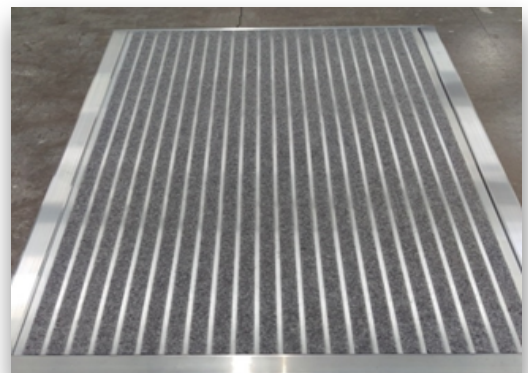
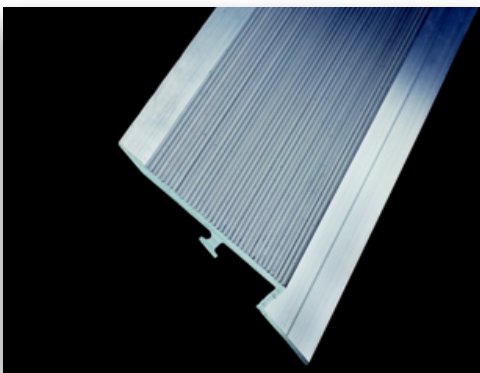
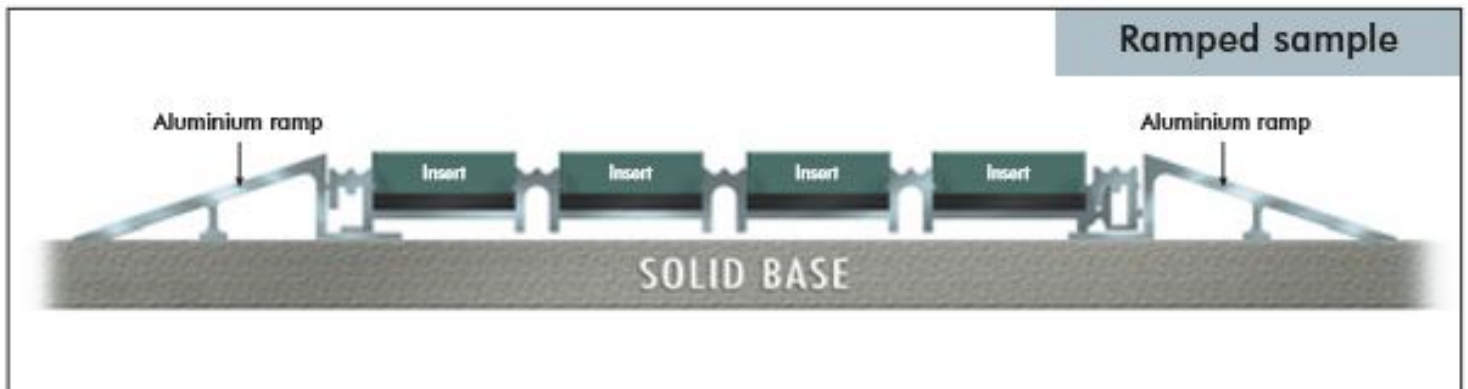
The Matwell has a 30mm screed applied. The 25mm x 25mm x 5mm frame is fitted so the top is 5mm above the top of the surrounding subfloor and then the floor finishes are fitted including the screed giving a nice neat flush finish, 1 – 2mm out is not too much of an issue as long as it is safe.

Surface Mounted Installations

Most aluminium mats can be surfaced mounted without the need of a matwell. You can use low profile products i.e. 11/12mm which may or may not need ramped edges dependent on the floor finish. For example carpet tiles are approx 10mm thick generally so a 1mm difference is not insurmountable to overcome, using an edge of some description i.e. a square edge or a clip top. For vinyl's a ramp edge will be required taking the ramp from the height of the product to approximately 1mm, again not a trip issue/ hazard. This is particularly useful where buildings are being refurbished or if there is an issue with scraping out the subfloor to allow for a recessed matwell. Any ramped frames must meet with Building Regulations which state matting should be a maximum of 15mm.

You can see a selection of ramp edges you can use which are fixed to the floor by screws. This can also be useful with external applications where it may or may not be possible for a recessed matwell.

It is also worth considering that it does not interfere with the operation of the door.



Additional Considerations to Installations

Regardless of if the mat is surface or recessed in a matwell

Anything over 5mm is treated as a trip hazard and therefore can cause potential trips and falls.

Frames

The frame is usually required to protect the surrounding floor covering. Door bars and skirting often take the place of a frame and frames are only needed between the mat and the surrounding floor covering.

External Applications

The frames are fixed exactly the same but with one extra consideration. If the matwell could fill up with water, if the mat was there or not, drainage would be required to stop the matwell filling up.

Also the type of insert in external applications should be limited to materials that can perform in this environment – materials that will not become sodden like polypropylene brush type materials or even rubber inserts will cope and offer optimum scraping and drawing of moisture.



Environmental and other factors to Consider

Environmental factors

The buildings external environment will have an impact on the type of matting that is required.

Is the entrance directly off the street?

Is there a canopy or shelter of some description to shield the entrance from wind and rain (driving rain into the entrance)?

If there is not, a heavy duty entrance mat should be used that will be able to cope with higher levels of dirt and moisture.

If not specified correctly a mat can become quickly saturated and unable to retain any more moisture, and this would result in contaminants onto surrounding floor finishes causing an increase in the risk of trip slip and fall accidents. Consider if Security Entrance systems might also be affected by aluminium matting systems

An often overlooked factor is help for the mat to dry

Adequate heating/ curtain heating with in a building will also help the mat to dry thus giving a more effective solution so consideration to this should also be paid attention to.

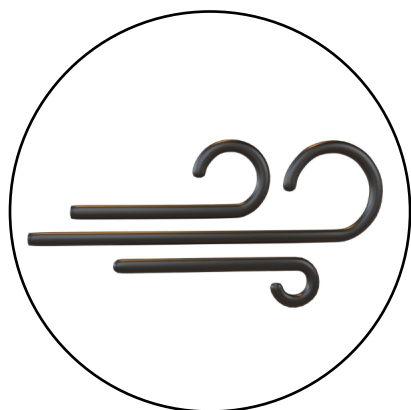
Insert Materials

Jaymart mainly uses man made materials as insert materials due to the materials being very hardwearing, absorbent, UV and rot resistant. They are also very quick drying that make for a more efficient system. All materials are environmentally friendly.

We also offer systems made of Coir and Goat Hair which are made from natural and sustainable materials. We would suggest consulting with our technical representatives for suitability of these products as they have to be used in the right environment to be an effective entrance mat system.

Choosing the right entrance matting

External factors that affect specification



Wind Direction

If rain will be driven into the building's entrance then consideration should be given for an increased area of entrance matting for an exposed entrance and use of a fibre insert that absorbs high levels of moisture



External Surfaces

Choose the right mat for the outdoor surroundings - if loose dirt and soiling are an issue - consider using an external entrance mat for urban applications moisture absorption should be high on the list so choose a fibre insert with optimal absorption.



External Drainage

Having effective removal of surface water will mean less moisture is tracked into the building. For exposed entrances use of a fibre insert that offers optimal absorption, also consider using an increased area of entrance matting.



External Canopies

Having an external canopy and by increasing its size will help to keep the floor surfaces dry and protected from the elements, also consider using an increased area of entrance matting with fibre inserts that offer optimal moisture absorption.



Building Facade

Will the entrances be exposed to wind and rain or be protected. If the entrance is exposed consider using an increased area of entrance matting with fibre inserts that offer optimal moisture absorption.

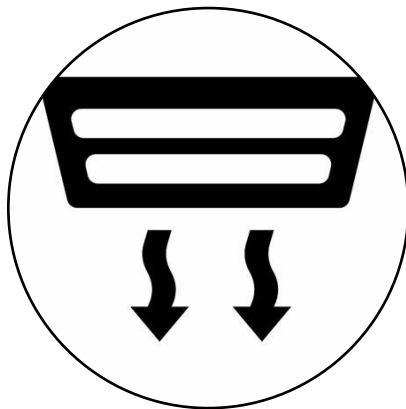
Choosing the right entrance matting

Internal factors that affect specification



Flooring

Hard flooring surfaces such as Terrazzo or Ceramic tiles must be kept clean and free from moisture to prevent slip accident. Soft Flooring such as carpet must be protected from ingress of dirt, grit and moisture causing damage and premature wear/ replacement.



Air Curtain

Incorporating and using an effective air curtain/ adequate heating within the reception area will help the entrance matting inserts dry quicker, thus maintaining an effective barrier to dirt and moisture even in the most extreme weather conditions.



Draught Lobby

Preventing cold air and moisture entering the building will help keep the matting dry and clean helping the matting system to remain effective - removing the maximum amount of dirt and moisture possible. Consider a stage 1 matting in this area to help the process.



Revolving doors

Revolving doors like a draught lobby prevent cold and wet air entering a building. They are also an excellent way of increasing the number of steps on the matting - increasing the performance of the matting system. Use a heavy duty insert that can cope with the increase concentrated traffic.



Wheel Chair Access

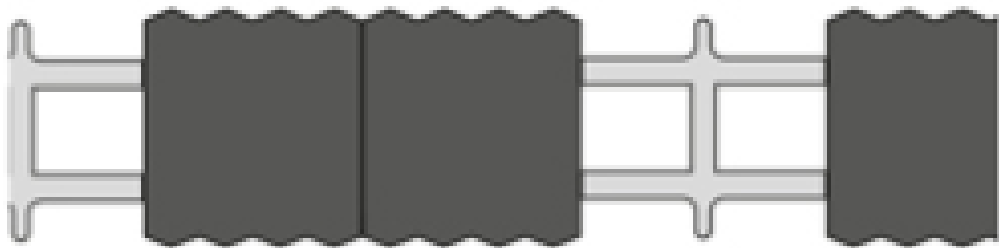
Pass doors will typically allow direct inflow of air into a building - the depth of the matwell should allow for the full wheel rotation of a typical wheelchair (minimum 2100mm - BS 7953 See standard section at rear for more information

Construction Types of Primary Mat Systems

Wired Systems

This is where the rubber insert is alternated between aluminium scraper bars and held together with wire under tension.

The advantage of this system is that it is reversible so can be turned over and reused. The disadvantages of this system is also that if the matwell is not kept fastidiously clean when the time comes to reverse the mat it will be as dirty as the side you are changing over from. Also due to rubber insert is not as absorbent as fabric inserts so will not be as effective on hard flooring types. Also with the wired construction this can bend or even snap with wear or if heavy goods are brought across it. It is also hard to get perfect rib alignment with this type of construction. If the rubber is coloured this will also not be UV resistant so can fade with use.



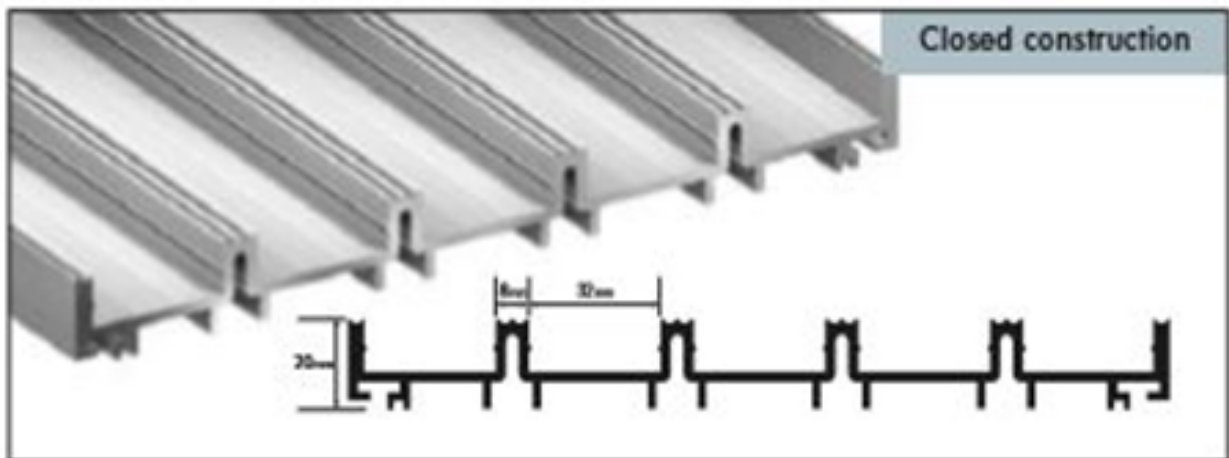
Extruded Panel Systems

This is where the mat is made in extruded sections and made in to panels with alternating carpet and aluminium on a solid base.

The advantages of this construction type are they are stronger than wired construction, Ability with some systems to get rib alignment – you can get perfect rib alignment with the Jaymart systems.

With the Jaymart system you also have the ability with some systems to replace inserts if damaged or changing interior decor.

A possible disadvantage of the extruded panel system is if the subfloor is not level and smooth you may get some noise if high or low as panels rock/ move. This can easily be overcome by a foam backing or base. A wired system due to the wire bending can mould to an uneven subfloor but can snap.



Open & Closed Construction

Most aluminium matting systems will come with the option of open or closed constructions

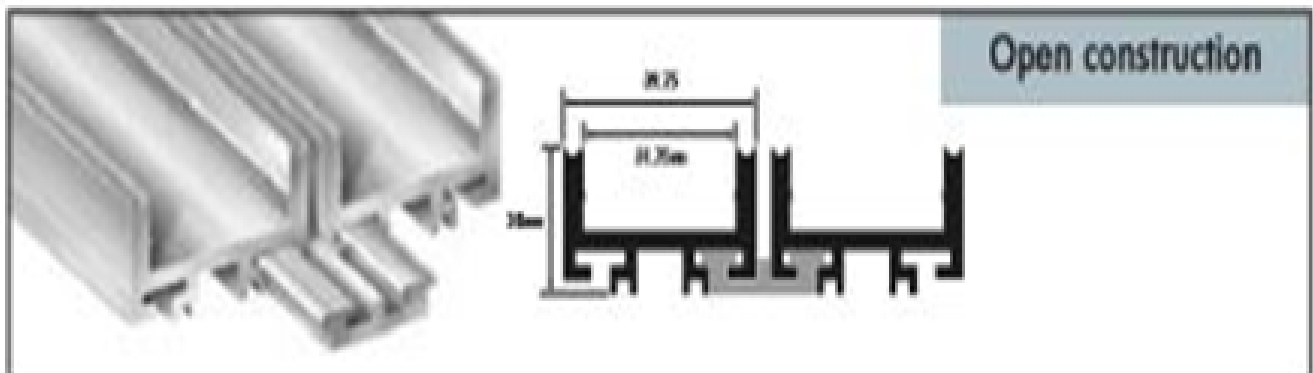
Open construction Mat Systems

This is where the mat is engineered with a gap between the wiper scraper combination to allow debris and dirt and moisture to pass through and collect underneath. The construction is designed to be heel safe as so not to cause issue with high heels.

The advantages of this system are

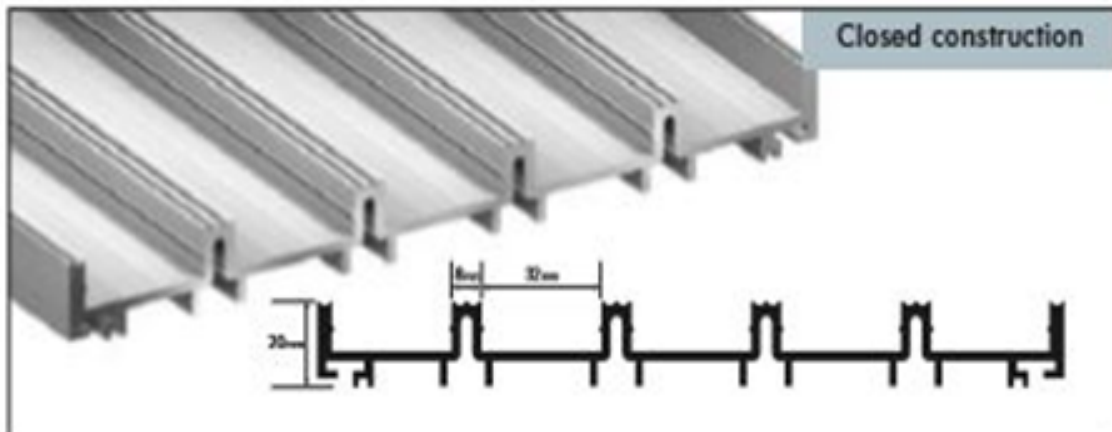
- Excellent in external applications
- Debris and moisture is drawn out beneath the mat

A disadvantage of this type of construction is that if not cleaned regularly the mat can clog and cause issues like reduced effectiveness of the mat or premature wear.

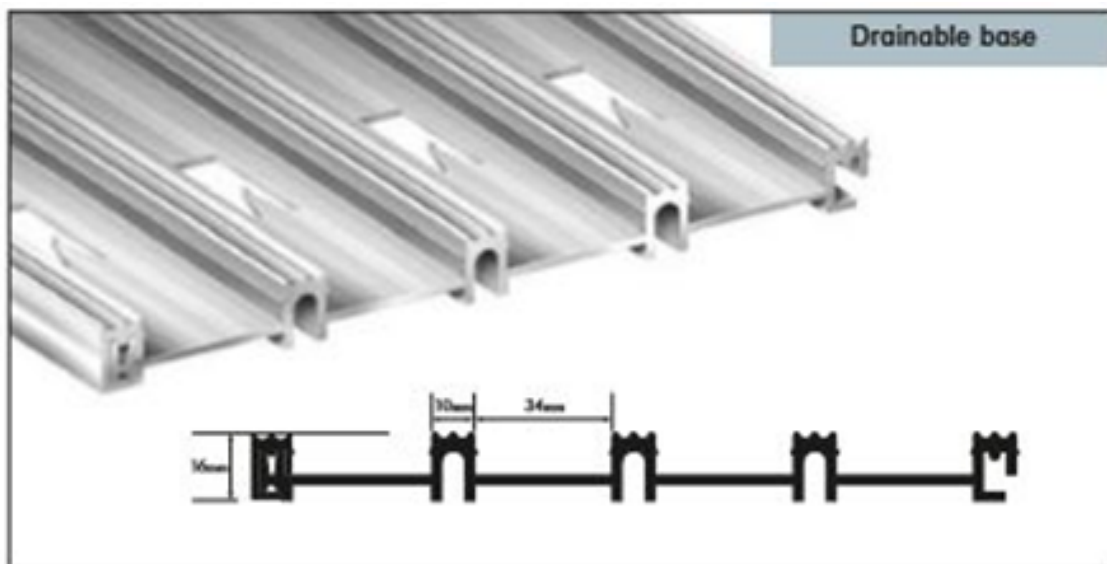


Closed Construction Mat Systems

Closed construction is just that, closed so no gaps between scraper and wipers so debris is collected on the mat. An advantage of this system is that less debris collects around and under the mat reducing the need to uplift and clean the mat well.

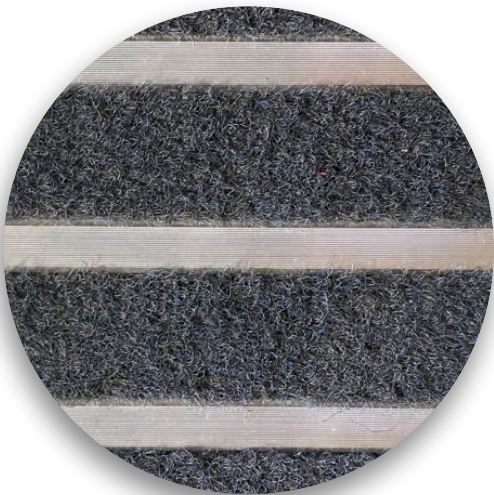


Some designs of the matting have now developed a hybrid system which gives the advantages of both systems particularly useful in heavy traffic areas. The system is drainable where the matwell has holes in the profile and into the insert material so the water/ moisture runs through the mat and evaporates naturally if the matwell fills with water drainage will be required,



All mats look the same from the top.....

Jaymarts range of matting systems compared with others on the market are significantly thicker gauge and heavier - meaning you can be assured of years of use and can replace the inserts rather than the whole matting section which with thinner sections is unlikely. Refurbishment rather than replacement - more environmentally friendly and sustainable.



Jaymart Alligator



Competitors Equivilent



When specifying Entrance Matting there are several pieces of legislation that should be considered, as outlined briefly below. None of them dictate the exact type of matting to be used or the dimensions of the perfect matting system, simply because every building is different, and each requires an individual solution.

BS 7953:1999 Entrance Floor Systems. Selection, Installation and Maintenance This standard outlines the key attributes of using Entrance Matting and the physical qualities a matting system needs to comply.

- Reduce the ingress of soiling and moisture into a building or to reduce the transfer of soil from one part of a building to another.
- Reduce slipping incidents by reducing the amount of soil and moisture tracked onto hard and resilient floors.
- Prolong the life of interior floor finishes by reducing the ingress of abrasive soil.
- Reduce the cleaning requirements of internal floors by reducing the ingress of soil onto internal floor finishes. To fulfil these functions an entrance flooring system should have the following qualities:
 - Removal and retention of soil.
 - Ease of cleaning and maintenance.
 - Retention of physical characteristics.

All of Jaymart's Range of Entrance matting systems fully comply with BS7953:1999.

BS 8300-2:2018 Design of an accessible and inclusive built environment

Together with BS 8300-1:2018 (External), this standard supersedes the original 2009+A1 2010 code, and explains 'how buildings, their approaches and immediate surroundings can be designed, build and managed to achieve an inclusive environment'.

The elements particularly relevant to the design and specification of Entrance Matting systems are as follows:

- Accessible Entrances: 'Type of threshold needed to allow safe and stepfree access; the ease of operation of the entrance door; the minimum effective clear width through the doorway; the provisions for effective drainage whilst retaining level access.
- Entrance Flooring Systems: 'At entrances to commercial buildings and buildings used by the general public, a suitable entrance flooring system to remove water and debris from the soles of shoes and wheelchair wheels should be provided, taking account of the volume of pedestrian flow and the distance required to accommodate the circumference of a large wheelchair wheel (a minimum of 2000mm).' Refer to BS 7953 for specific guidance.
- Floor Surfaces:
 - 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. '
 - 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. '
 - Deep pile carpets and coir matting on the surface of the floor or within a mat well should not be used.'

WELL Standard

The WELL Standard is made up of 10 Concepts, each covering features with distinct health intents, including advice on how to create a healthy entrance (AIR08):

- All regularly used entrances to the building that have pedestrian traffic to the exterior use an entryway system composed of grilles, grates, slots or rollout mats that are at least the width of the entrance and 3 m [10 ft] long in the primary direction of travel (sum of indoor and outdoor length).

Information taken from the above sources has been interpreted and summarised by Jaymart Rubber & Plastics Ltd to aid specifiers; however, we can take no responsibility for incorrect interpretation.

For specific project guidance please contact us.

How we contribute towards your BREEAM points, LEED credits and WELL certification

With a commitment to reduce our environmental impact, our ranges include 100% Econyl regenerated nylon and natural fibres from goats hair (a very sustainable source) contributing to green building practices. ECONYL® carpet fibres are eligible for LEED® points, so you can specify high performance entrance matting without compromising the environment. All the fibres used in Jaymart matting systems are produced in modern factories reducing waste and energy/ resources and the impact on the environment.

Our Aluminium rails are made from 100% recycled aluminium, which can be recycled to infinity without any loss of quality. Further more all the inserts are replaceable reducing the need for total replacement of the entrance matting system

The aluminium extrusion process uses a closed loop cooling system that reduces energy and waste by recycling water to further minimise our environmental impact.

For specific project guidance please contact us.









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