

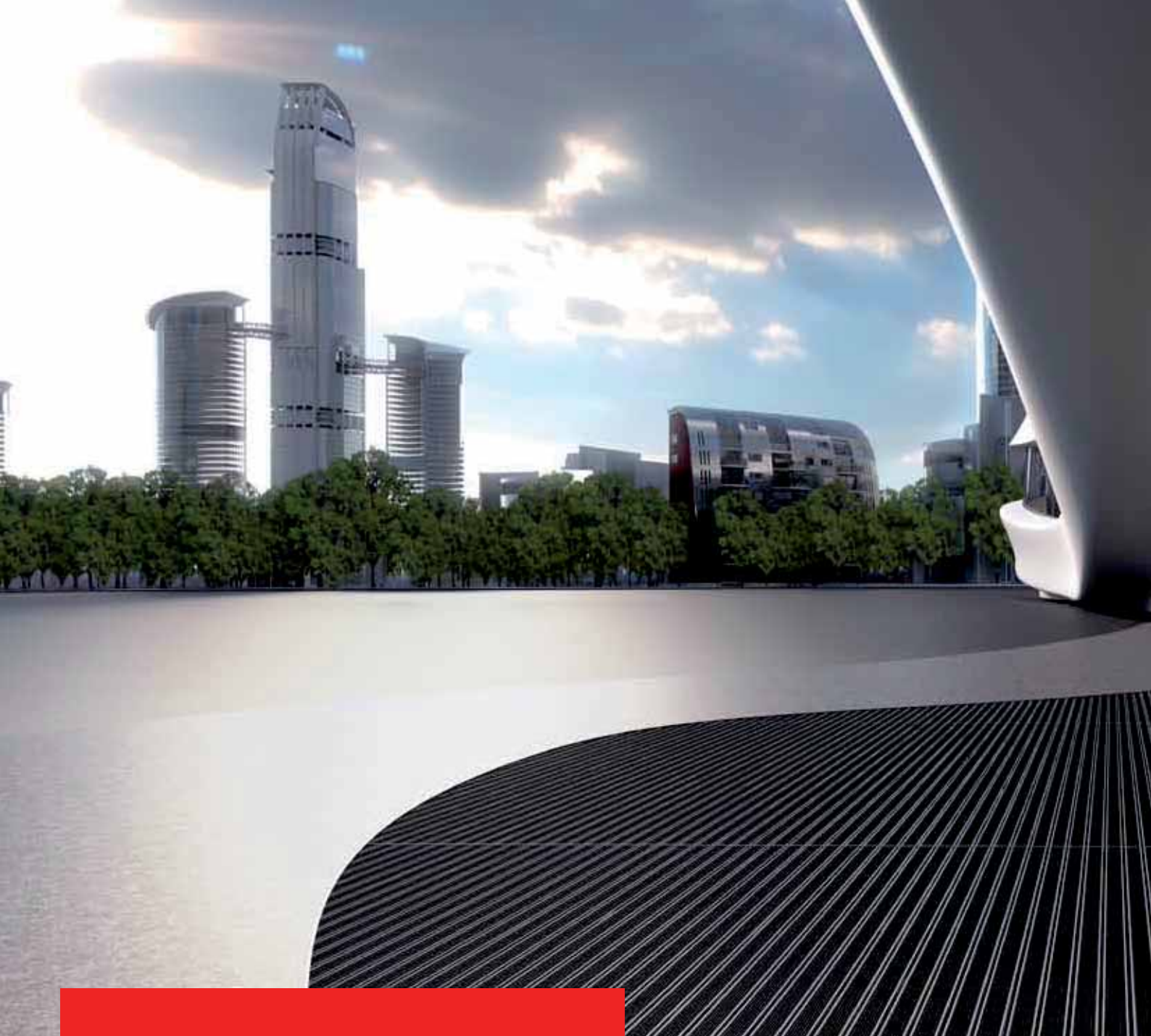


**Technical brochure for emco entrance mat systems**

**Designing clean entrances**

**emco**





## **emco – designing clean entrances**

Take the first step towards cleanliness – on our entrance matting systems. We are one of the world's leading manufacturers of entrance matting systems that are designed to reduce dirt and damp entering into most buildings. But our systems do much more than protect buildings and their users, combining customised designs and high-quality workmanship, they help any entrance area make a grand entrance of its own.



## emco entrance mat systems

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**Visit us online!**

[www.emco.de](http://www.emco.de)

[www.ausschreiben.de](http://www.ausschreiben.de)

*Full details of all the emco products in this brochure can be accessed in all standard formats (such as GAEP, PDF, DOC, HTML, DATANORMS, ÖNORM, Text and XML) via the Internet sites above.*



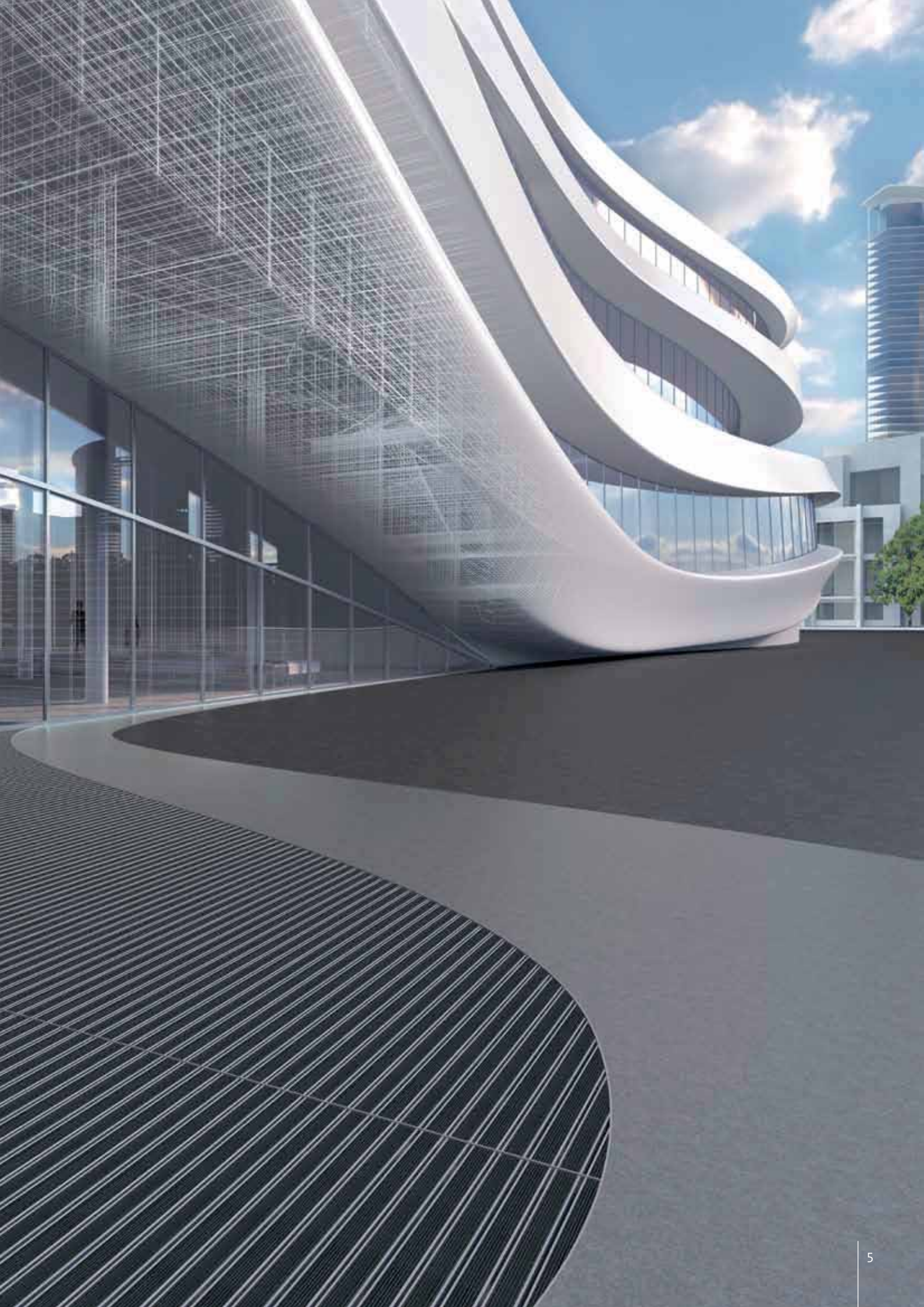
## A great reception

Entrance areas are a key element of architectural concepts, but they also present architects with a challenge: they cannot be reduced to the status of just a floor-to-ceiling hole in the facade, and neither do they work as simply a way for people to get into the building. Even the term “entrance area” expresses their dual nature: they might be a way of physically entering a building, but (as the word “area” indicates) they also have a spatial purpose. It can be no surprise, then, that the entrance area has developed into a multipurpose space that is designed to cope with different requirements depending on the building itself, the urban development context around it, and the concept behind the architecture.

As well as providing a protective function, the entrance area also leads us into the building and can direct us to where we need to be once inside. When do we cross the physical threshold between the outside and inside? Not only that but how do we get in tune with the building and how does it work? How is the user received? How does the building welcome us? Answering these questions requires an all-encompassing approach to the architectural concepts behind the application; one which deliberately sets the stage for a building to make its first impression, for the building’s purpose and for its users. In addition, it requires detailed solutions and the right product specification to be incorporated into the process of designing a high-quality entrance area.









18,1m

0,7m

17,9m

16,0m

2,0m

35,3m

17

Treppe gewendet  
18 Stg. 17,7

1. Mezzanin

Oberlicht  
2,4 / 4,6 m

Erdgeschoss Foyer  
+ 0,00 = + 39,00 ü N.N.

Sauberlautzone  
ca. 200 qm

11,708m





## Cleanliness makes an entrance

As an area that serves multiple spatial and functional purposes and has a decisive effect on both the interior and exterior of the building, the entrance is a key part of an overall architectural concept. The options available for designing it and the elements used in the design are as versatile as the entrance area itself. This part of the building may indeed be inextricably linked to the facade from a functional perspective, but moving beyond this point – towards both the inside and outside – raises the question of how the entrance area should fulfil its spatial requirements. The entrance point itself acts as a kind of threshold or port, with issues such as protection, materials, design and technology at the heart of its concept.

Not only is it possible to incorporate emco entrance matting systems into a full, sophisticated design concept for the entrance area, but the systems also lend a helping hand to the design process. Although the systems naturally focus on protecting the building against dirt, our sophisticated 3-zone cleaning method, as well as high-quality materials, customised approach to production and painstakingly detailed solutions, allowing us to be incorporated into the design concept right from the start. And to assist the design process, emco offers a comprehensive service that takes in everything from planning to aftercare.





## Advanced building protection

As the entrance itself opens up into the entrance area, it also opens up space for a cleaning concept that is integrated, effective and thoroughly impressive. Combining emco aluminium mats that offer a range of different thicknesses and inserts in combination with emco clean off floor coverings, the 3-zone cleaning concept protects the building against virtually any kind of dirt, simply when people walk across the surface.

In zone 1, emco entrance mats with a rubber insert and/or a cassette brush collect coarse dirt. Zone 2 scrapes off fine dirt using the emco carpet or ribbed carpet insert, and zone 3 reduces damp and residual dirt using our emco clean off carpets. In areas that people step on directly from outside, we recommend installing dirt and damp collection elements that cover the entire width of the entrance (in line with accident insurance and prevention guidelines). These should be at least 2 mts long in the direction in which people will walk across them, 3 mts would be ideal.



**Zone 1**  
Coarse dirt



**Zone 2**  
Fine dirt and moisture



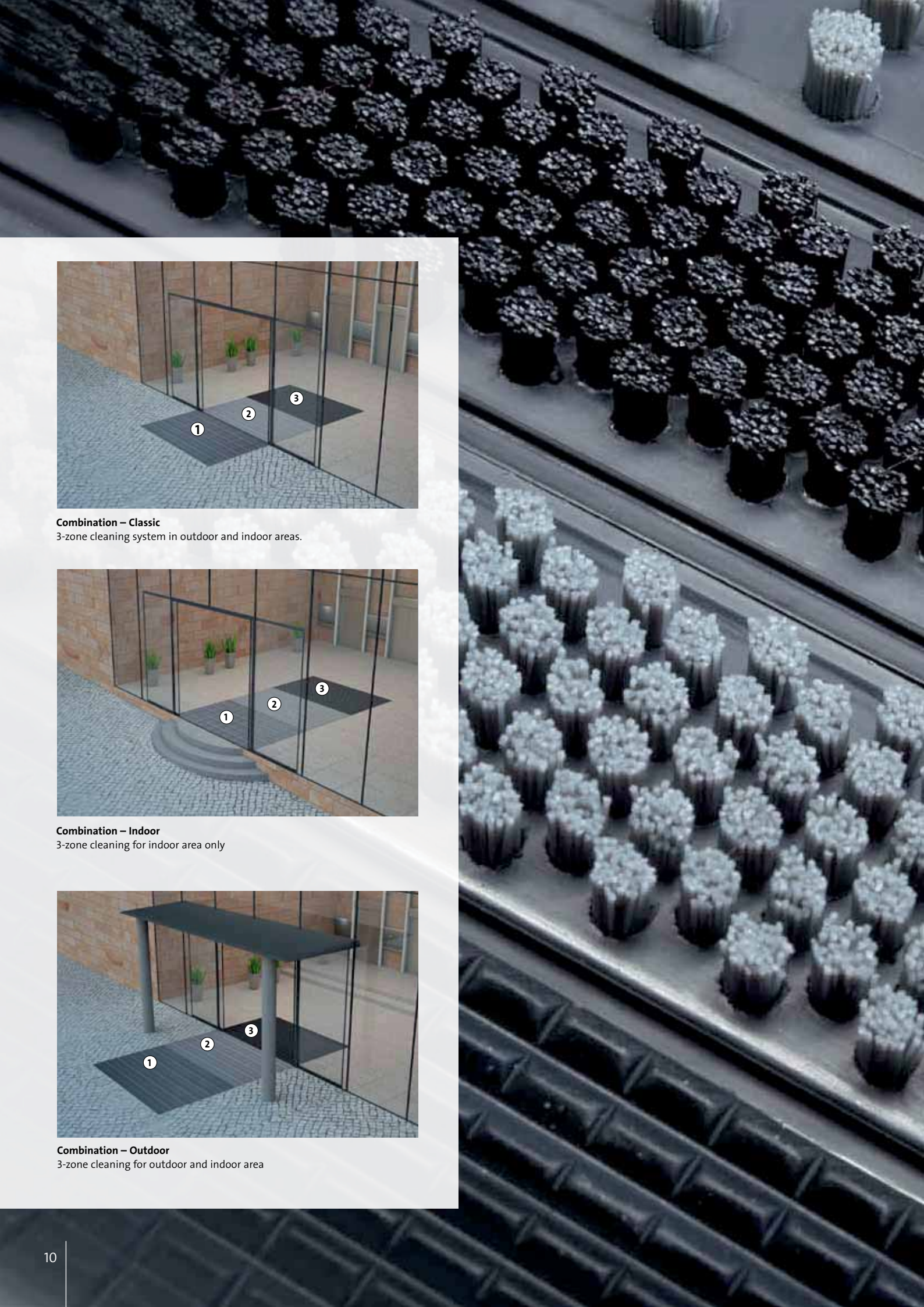
**Zone 3**  
Remaining fine dirt and moisture







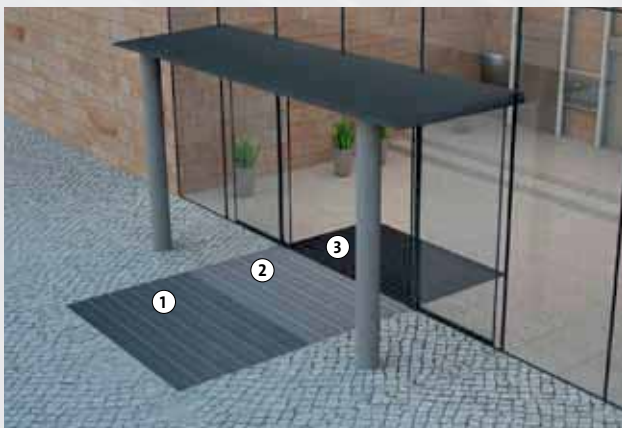




**Combination – Classic**  
3-zone cleaning system in outdoor and indoor areas.



**Combination – Indoor**  
3-zone cleaning for indoor area only



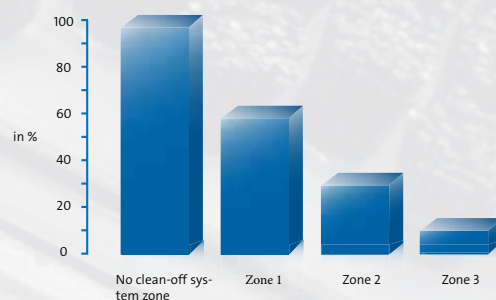
**Combination – Outdoor**  
3-zone cleaning for outdoor and indoor area



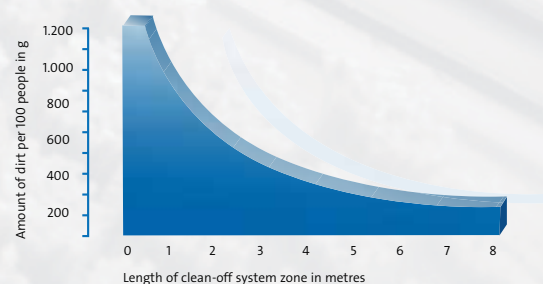
## The flexibility to plan any design. The same benefits every time.

With its combination of different mat types, the 3-zone cleaning concept offers a flexible system that can be integrated with ease into a whole range of different entrance areas. Its flexibility extends not only to the designs that can be used for each zone – incorporating different profile thicknesses, heights and inserts, for example – but also to the way in which the individual zones themselves can be combined. This means that the entrance area can be designed to suit the structural conditions and how heavily used the building in question is. But there's nothing variable about the benefits of this system:

- It significantly reduces cleaning costs, which not only saves money but also protects the environment as less water and fewer cleaning substances need to be used.
- It provides permanent protection against damage, dirt and de-icing salt burns for the floor covering inside the building, thus safeguarding the building's value over the long term.
- It considerably reduces the risk of accidents and slipping caused by damp and dirt on the floor.



Cleaning costs (based on internal testing) in relation to the extent of the mat systems used



Reduction in the occurrence of dirt in relation to the length of the clean-off system zone



## Flawless functionality

The efficiency, functionality, resilience, flexibility and wide choice of system components that emco entrance mat systems offer make them a winning choice.

No matter what combination you choose, the functional inserts ensure efficient long-term dirt removal, since the dirt is collected in the gaps. The mats can be rolled up, allowing dirt to be removed from the mat well with the utmost ease.

The robust emco aluminium profiles stand up to consistently heavy loads and are completely unaffected by fluctuations in temperature. All proof of a top-quality product – just like the label says.

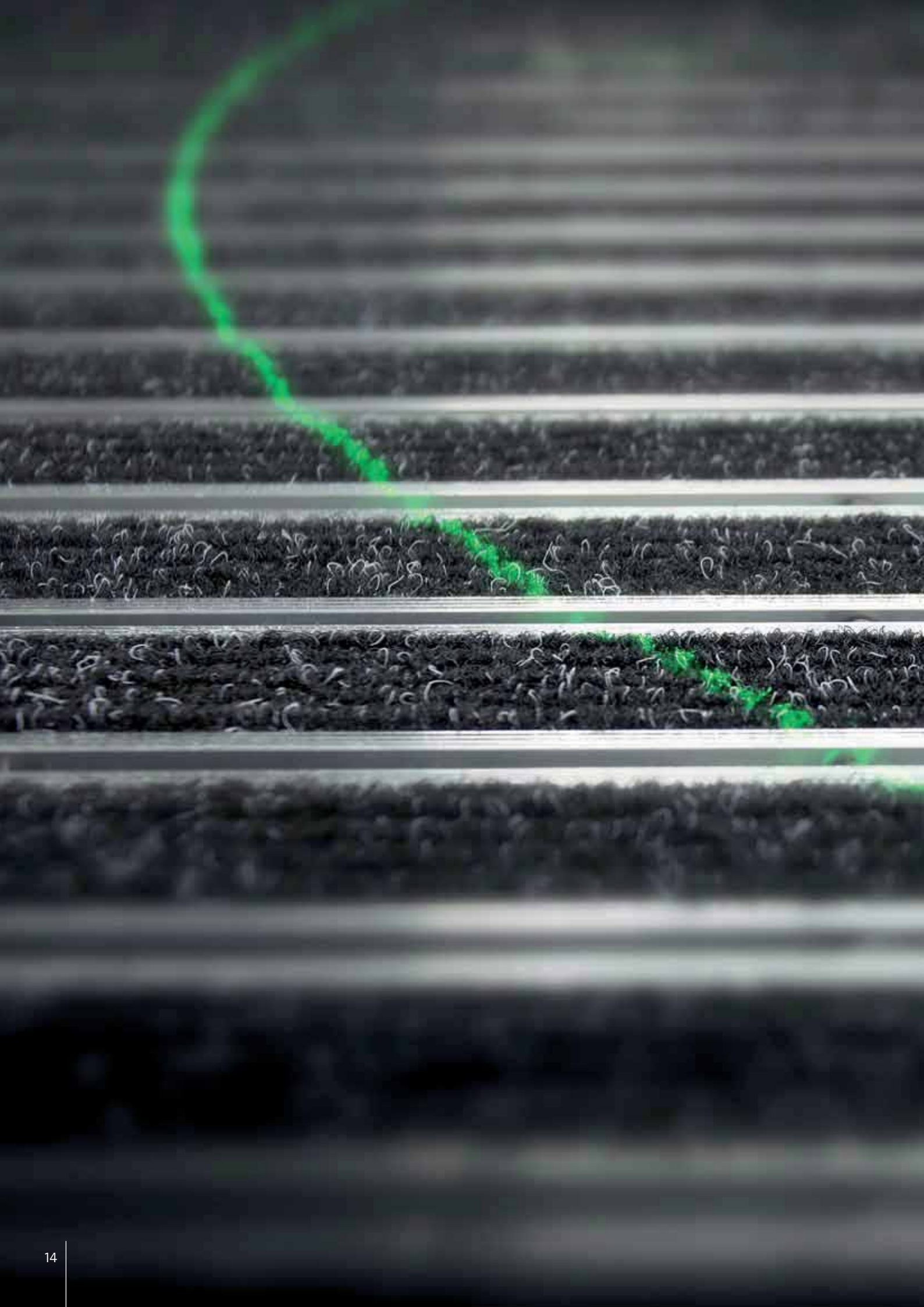


**emco**







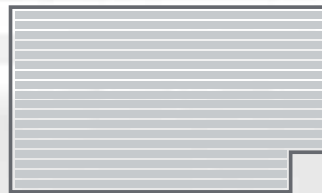




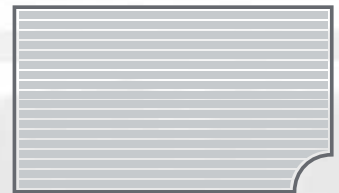
## As unique as the architecture itself

A discerning eye for design is what transforms an outstanding concept into a stunning building. That's why emco considers the manufacturing quality of its entrance mats to be of such importance. An experienced specialist in this area, the company has developed its expertise by trading for more than 50 years and uses state-of-the-art technology. It takes a precision approach to creating customised shapes and designs. As well as this, emco offers a comprehensive building service that provides planners and architects with support throughout the process – from the planning stage to tendering and making designs a reality, right through to service and maintenance.

emco not only aims to support the design process through its entrance mat systems – it also makes sure to deliver on this aim.



**Square cut-outs**



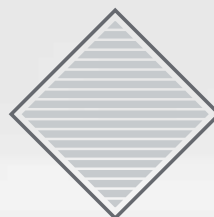
**Round cut-outs**



**Curved designs**



**Angled designs**



**Square**



## Customised appearance

If a company's entrance area aims to be the first impression that company gives, then a design that includes corporate colours is an ideal way to achieve this. Colours are the method of choice when it comes to creating special effects – whether the intention is to make a brand more recognisable, foster a harmonious overall image or make an exciting contrast. For this reason, our carpet and ribbed carpet inserts are available in a whole range of different colours that are completely unaffected by dirt.

### Standard colours



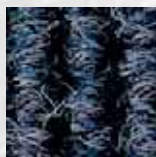
**Anthracite**  
No. 200



**Light grey**  
No. 220



**Beige**  
No. 420

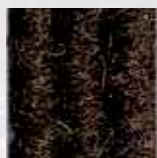


**Blue**  
No. 114

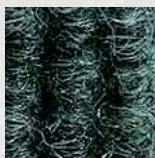
### Special colours



**Mauve\***  
No. 374



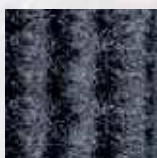
**Brown\***  
No. 445



**Turquoise\***  
No. 050



**Sand\***  
No. 430



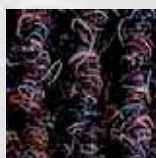
**Blue/grey\***  
No. 113



**Red\***  
No. 205



**Royal blue\***  
No. 100



**Grape\***  
No. 112







A photograph of a modern building facade. The central feature is a wide, horizontal metallic band with the word "WELCOME" in large, bold, raised capital letters. This band is flanked by two large sections of a green wall, which is composed of many small, dark, textured plants. The entire facade is set against a background of a grid-like structure, possibly a window or a decorative element, with horizontal lines running across the image.

WELCOME



## Sophisticated details

The overall image that a product conveys, as well as how durable and user-friendly it is, relies not only on its quality but also on its attention to detail. That's why our entrance mats come with the addition of sophisticated details and accessory solutions, from profile strips to accentuating features, right through to matching inserts. As well as this, our installation frames, dirt collection wells and substructures are always designed to suit the building in question and the types of loads it is expected to withstand.

One special detail is our laser-cut stainless steel profile, which can be integrated into the emco entrance mat together with your company name/logo or other text.





## A radiant solution

Because we take an all-encompassing approach to design, we understand the impressions that a building gives at different times of the day and year – one example is what happens when it gets dark. emco LUMINA is our solution to this situation. This illuminated frame system, featuring maintenance-free, energy-saving LED lighting, not only helps illuminate the entrance matting at night but also makes it easier for users to find their way. The result is an entrance area that is just as inviting during the winter months or twilight as it is on a bright day. emco LUMINA makes a real impact by using dots of light, where as LUMINA VIA's continuous illuminated edge gives the mat a more refined look.

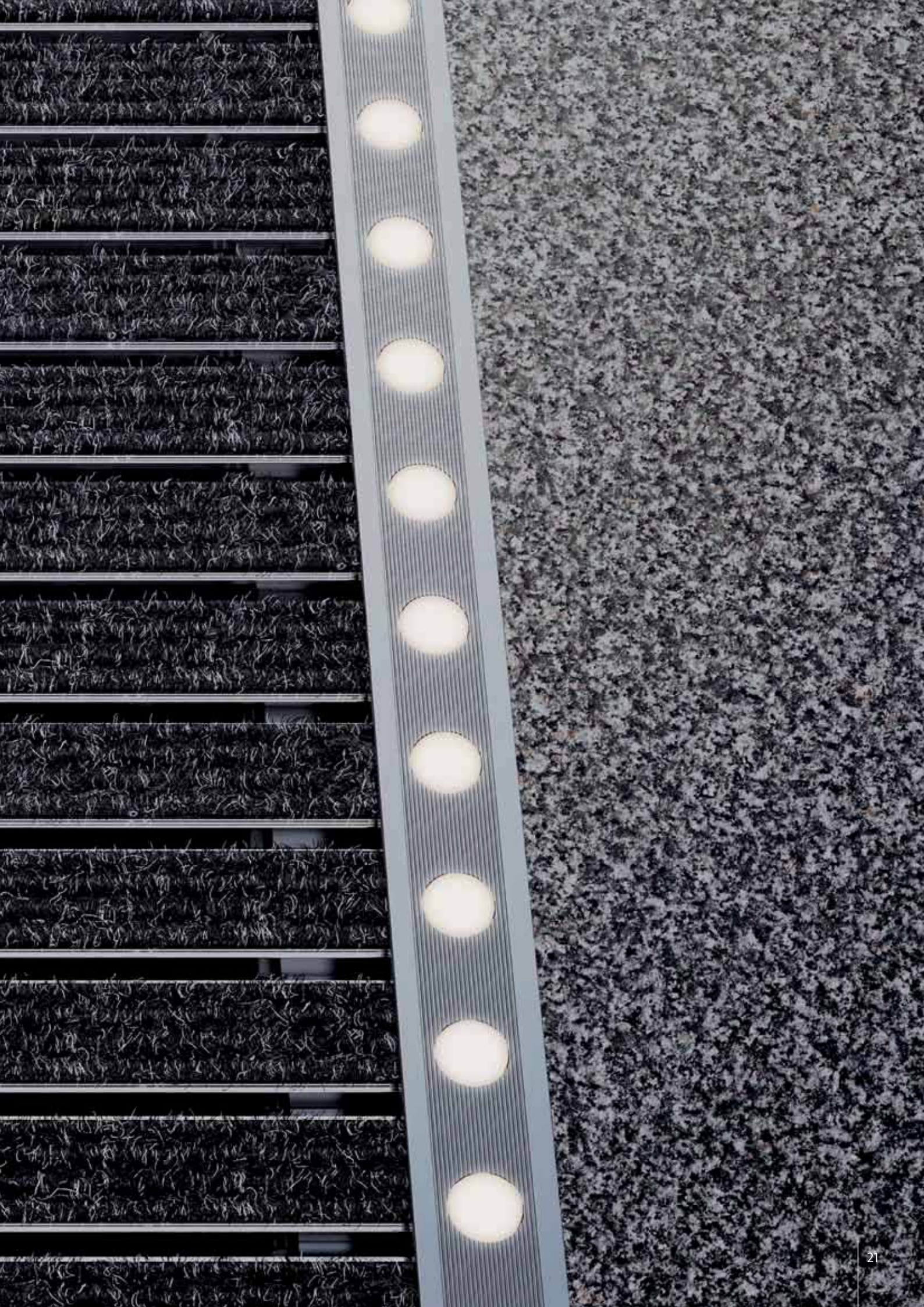
*For more information, please refer to p. 64.*



With emco LUMINA VIA, you can choose specific colours and opt to control the system via remote control, smartphone or tablet PC.

**emco**









**1. Material quality.** emco entrance mats enjoy an outstanding reputation which they have earned thanks mainly to their resistance to weathering, excellent resilience and functionality. emco supporting chassis are made from a high-quality aluminium alloy and are equipped with superior inserts which are a perfect fit. In addition, emco offers matching frames in aluminium, brass and stainless steel.



**2. Innovation.** Here at emco, one of our core strengths lies in a solid key strategy involving the continual development of our range of attractive and useful product versions. This is something we have demonstrated in recent years with products such as the emco LUMINA illuminated frame system, the extra-wide profiled SENATOR mat and the closed GS 517 mat. Our laser measuring devices, mobile ribbed carpet replacement machines and high-tech production processes are all testament to our technical expertise.



**3. Durability.** emco entrance mat systems consist of high-quality components that guarantee a long service life. Our ribbed carpet replacement (insert replacement) service extends the useful life of emco entrance mats, keeps investment costs down and is environmentally friendly.



**4. Ecology.** emco entrance mats considerably reduce the amount of time and money spent on cleaning adjacent floor coverings, which in turn reduces water consumption and the use of chemical substances – thus benefiting the environment. Our production methods use sustainable raw materials.



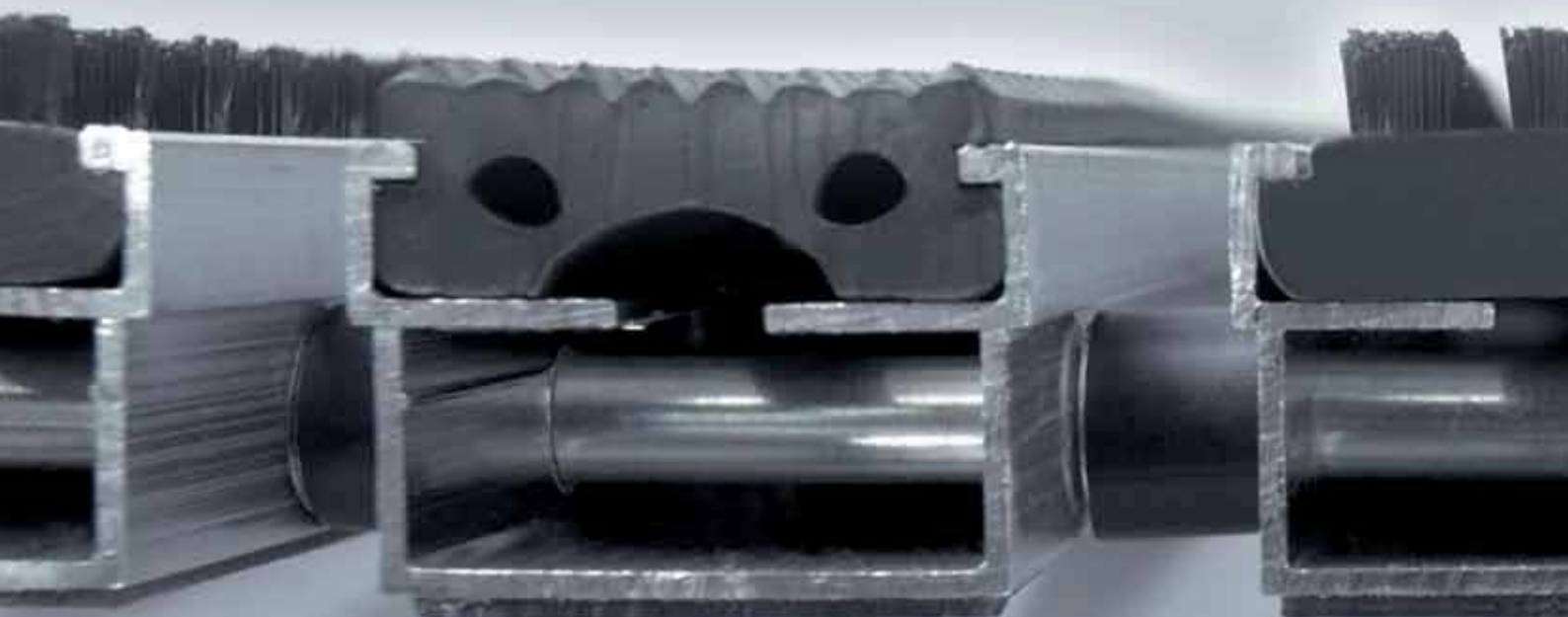
**5. Safety.** We subject every single one of the products in the emco range of entrance mat systems to rigorous testing, both in-house and at external independent locations. What is more, emco aluminium entrance mats demonstrate slip-resistant properties, offering the best possible prevention of accidents in compliance with DIN 51130 (according to resistance type: R 9, R 10, R 11 and R 13). In this way, we help to reduce the risk of accidents whilst also significantly improving hygiene levels in heavily frequented areas.



**6. Fire resistance.** For special installations, emco entrance mats featuring ribbed carpet and/or rubber inserts are available in flame-resistant versions with Cfl-s1 or Bfl-s1 classification in accordance with EN 13501-1 (formerly B1), at an additional cost.



**7. Warranty.** As the result of feedback from our customers, we know that emco entrance mat systems offer reliable quality for the long haul, if however, they do demonstrate defects and it has not been possible to trace these back to improper usage, then our statutory product warranty and guarantee conditions will of course apply.







**8. On-site service.** Our service team will plan and install individually tailored emco entrance matting systems on site, exactly in accordance with your wishes and the specifications of the building in question. Equipped with a mobile ribbed carpet replacement machine and laser measurement devices, we are always at your service and our highly competent sales team will be happy to advise you, what ever your location.



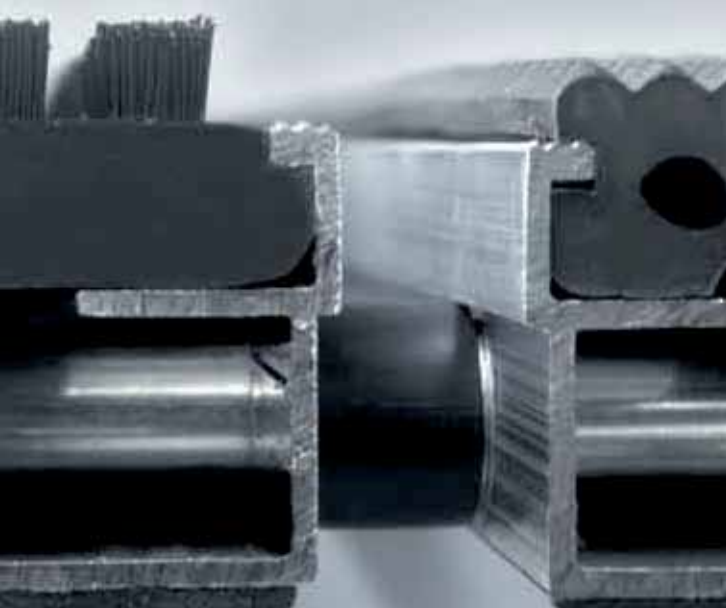
**9. Quality control.** Before we dispatch any emco entrance mats off to its destination, it undergoes a thorough testing process on the basis of a checklist to make sure it is of the highest possible quality, and we document the results. Each mat also receives a test number.



**10. Quality assurance.** Working together with Bielefeld University of Applied Sciences, we submit selected emco products for static and dynamic testing using a variety of test systems. Since 1995, the university has run an annual certification programme in accordance with DIN EN ISO 9001:2008. All of the emco entrance mat types that feature the “Test am Teuto” seal have been tested and certified by Bielefeld University of Applied Sciences in accordance with their type (fully supported or self-supporting).

## Ten good reasons to rely on emco

emco has been producing entrance mat systems to the highest standards of quality for more than 50 years. Offering users maximum freedom to create the design they want as well as superior reliability, they play a key role in creating a harmonious first impression at the entrance to a building, in a way that is in keeping with the overall architectural concept. emco works on a solid foundation of innovation, material quality, ecology, safety and service before, during and after production.





## Profile combination

The outstanding levels of functionality and effectiveness that our entrance mat systems offer are down to the wide choice of system components (profile and insert variants) available, which make it possible to tailor entrance mats to individual requirements.

emco entrance mats can be supplied in a range of different profile heights and material thicknesses. As a rule:

- As the construction height increases, so too does the mat's capacity for accumulating dirt, like a dustbin.
- The thicker the material, the higher its potential resilience.
- All profiles are made from high-quality aluminium, which means they are unaffected by fluctuations in temperature and offer long-term durability.

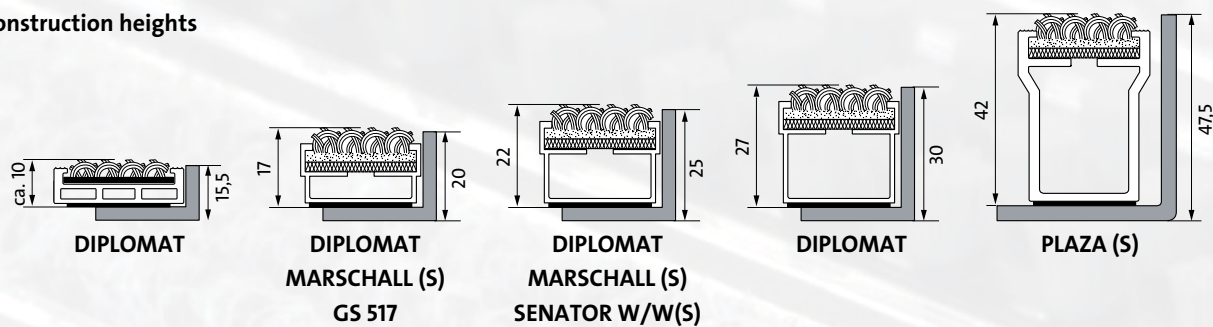
The installation location and the type of dirt that occurs in these areas determine the type of insert to be used. Additional profiles enhance the system's cleaning effectiveness.

Any combination of profiles and inserts are manufactured exactly in accordance with the specifications from the planning stage. Once this mat has been produced, the mat can be rolled up: a plus point not only for delivery and installation, but also for maintenance purposes, as it enables the mat to be lifted easily or rolled up and then the dirt removed by brush or vacuum cleaner, except GS 517.

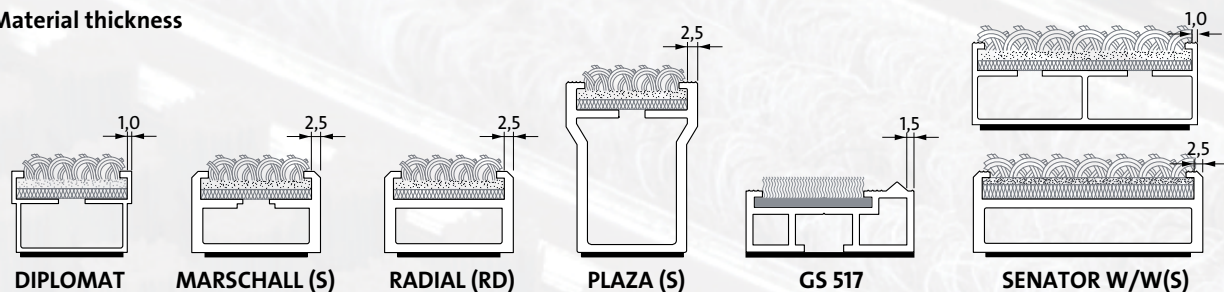




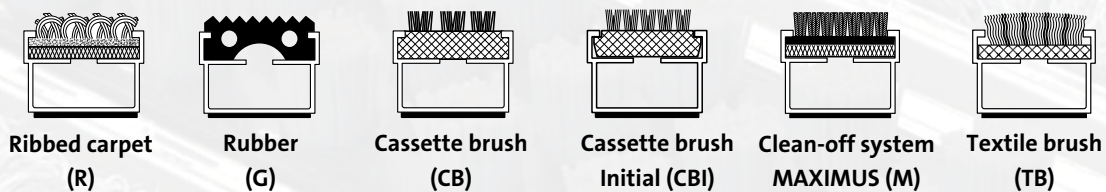
## Construction heights



## Material thickness



## Inserts



## Additional profiles





## How to find the right emco entrance mat



### Details of the combinations for the profiles available

<b>S</b>	Entrance mats for very heavy and exceptionally heavy loads (MARSCHALL and PLAZA types)
<b>W</b>	Entrance mats with extra-wide profiles (SENATOR types)
<b>RD</b>	Entrance mats with curved profiles (RADIAL type)
<b>GS</b>	Closed entrance mats with integrated scraper bar

### Details of the combinations of the inserts available

<b>G</b>	Rubber insert	<b>RB</b>	Ribbed carpet insert with brush strip
<b>GB</b>	Rubber insert with brush strip	<b>RK</b>	Ribbed carpet insert with scraper bar
<b>GK</b>	Rubber insert with scraper bar	<b>RG</b>	Ribbed carpet insert with rubber insert
<b>GCB</b>	Rubber insert with cassette brush	<b>RCB</b>	Ribbed carpet insert with cassette brush
<b>CB</b>	Cassette brush	<b>TB</b>	Textile brush
<b>CBI</b>	Initial cassette brush	<b>M</b>	"MAXIMUS" clean-off insert in standard colours, with customised image printing option
<b>R</b>	Ribbed carpet insert		

### Inserts and additional profiles

Zone	Type of dirt	Description	Weather effects, installation location	Recommended insert	Additional profile for increased effectiveness*	Recommended mat types
<b>1</b>	 Coarse dirt	Street dust, sand, ash, textile fibres, small leaves and twigs, loose chip-pings, coarse sand, small gravel particles	Protected (indoors)	Rubber (G) Ribbed carpet with rubber (RG) Cassette brush (CB) Ribbed carpet with cassette brush (RCB)	Brush (B) Scraper bar (K)	CB G GB GK RB RCB RG RK
			Not protected (outdoors)	Rubber (G) Cassette brush (CB) Rubber with cassette brush (GCB)	Brush (B) Scraper bar (K)	G GB GCB GK
<b>2</b>	 Fine dirt	Street dust, sand, ash, textile fibres, small leaves and twigs, etc.	Protected (indoors)	Ribbed carpet (R) Ribbed carpet with rubber (RG) Ribbed carpet with cassette brush (RCB) Textile brush (TB)) MAXIMUS (M)	Brush (B) Scraper bar (K)	M R RB RCB RG RK TB TBB TBK
			Not protected (outdoors)	Rubber (G) Cassette brush (CB) Rubber with cassette brush (GCB) Initial cassette brush (CBI)	Brush (B) Scraper bar (K)	CB CBI G GB GCB GK
<b>3</b>	 Damp dirt	Damp street dust, damp sand deposits, dust, etc.	Protected (indoors)	emco clean Off entrance matting systems	—	—
			Not protected (outdoors)	—	—	—

\* Additional profiles are only available with DIPLOMAT mats.



Find the right entrance mat for you in an instant – just use our QR code.

Or find us directly online by visiting:

[www.emco-bau.com/de-en/products/entrance-mat-system-product-finder.html](http://www.emco-bau.com/de-en/products/entrance-mat-system-product-finder.html)

You can also use the QR codes on later pages for quick access to information.



## Short overview

Load capacity	Normal ■ ■ ■ ■ Detached houses, doctors surgeries, boutiques, small shop entrance areas (up to 400 passages per day, TB + G up to 800 passages per day)	Heavy ■ ■ ■ ■ Administrative buildings, banks, schools, business premises with average numbers of visitors (up to 2000 passages per day)				Very heavy ■ ■ ■ ■ Shopping centres, airports, very heavily frequented entrance areas (2000 or more passages per day)	Exceptionally heavy ■ ■ ■ ■ Shopping centres, airports, exceptionally heavily frequented entrance areas (5000 or more passages per day)
	Suitability for wheeled traffic	Wheelchairs, shopping trolleys, hand trolleys (caution with GB, GK, GCB, CB, RB, RK, RCB)*				Wheelchairs, shopping trolleys, hand trolleys, cars, pallet trucks (caution with CB, GCB, RCB)*	
Construction height	Approx. 10 mm	17 mm	22 mm	27 mm	17 mm	22 mm	42 mm
Entrance mats for outdoor areas (zone 1)							
Rubber insert	510 G	517 G	522 G	527 G	517 S/G	522 S/G	542 S/G
					GS 517 G		
Rubber insert and brush strip		517 GB	522 GB				
Rubber insert and scraper bar	510 GK	517 GK	522 GK	527 GK			
Cassette brush	510 CB	517 CB	522 CB	527 CB	517 S/CB	522 S/CB	542 S/CB
		517 CBI	522 CBI	527 CBI			
Rubber insert and cassette brush	510 GCB	517 GCB	522 GCB	527 GCB	517 S/GCB	522 S/GCB	542 S/GCB
Entrance mats for indoor and covered outdoor areas (zones 2 + 3)							
Ribbed carpet insert	510 R	517 R	522 R	527 R	517 S/R	522 S/R	542 S/R
						522 RD/R	
			522 W/R			522 WS/R	
	515 R Height approx. 15 mm						
Ribbed carpet insert and brush strip		517 RB	522 RB				
			522 W/RB				
Ribbed carpet insert and scraper bar	510 RK	517 RK	522 RK	527 RK			
			522 W/RK				
Ribbed carpet inset and cassette brush	510 RCB	517 RCB	522 RCB	527 RCB	517 S/RCB	522 S/RCB	542 S/RCB
Ribbed carpet and rubber insert	510 RG	517 RG	522 RG	527 RG	517 S/RG	522 S/RG	542 S/RG
MAXIMUS insert		517 M	522 M	527 M			
			522 W/M		GS 517 M		
Textile brush insert	510 TB	517 TB	522 TB	527 TB	517 S/TB	522 S/TB	
					GS 517 TB		
Textile brush insert and brush strip		517 TBB	522 TBB				
Textile brush insert and scraper bar	510 TBK	517 TBK	522 TBK	527 TBK			
Frame type height	500/13 15,5 mm	500/20 20 mm	500/25 25 mm	500/30 30 mm	500/20 20 mm	500/25 25 mm	500/46 46 mm

\* Versions featuring brush strips, scraper bars and cassette brushes are only suitable for wheeled traffic under certain conditions. Please contact us for further information.

Key:

DIPLOMAT	MARSHALL	PLAZA	RADIAL	GS 517	SENATOR	KADETT (plastic)



## emco **DIPLOMAT**

**Ideal for hotels, business premises, doctors surgeries,  
private entrance areas and most medium to  
heavy contract installations.**

emco DIPLOMAT entrance mats are suitable for normal to heavy loads thanks to the wide range of options available, it can provide the right solution for any requirement including heavily frequented buildings, extreme weather situations and areas that have special aesthetic demands.



Normal



Heavy





Zone 1, outdoor area: DIPLOMAT 522 G  
Zone 2, indoor area: DIPLOMAT 522 R





# emco DIPLOMAT

## with ribbed carpet insert

**Recommended for:** Indoor and covered outdoor areas

**Load-bearing capacity:** Normal to heavy

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available.

**Passages:** Up to 2000 passages/day (type 510R and 510 RK up to 400 passages/day)

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surface:** Recessed, robust, weather-proof ribbed carpet strips  
Type RB: With additional brush strips mounted between the profiles  
Type RK: With additional scraper bars mounted between the profiles

**Non-slip properties:**

**DIN 51130**

**Colours:**

R 11 slip resistance (type RK: R 10) as per DIN 51130

Standard: light grey, anthracite, beige, blue; Special colours available: mauve, blue/grey, red, brown, turquoise, royal blue, sand and grape. Only standard colours available for types 510 R and 510 RK (refer to p. 16).

**Fire protection:**



Type 517R, 522R and 527R: Ribbed carpet colours light grey and anthracite available with fire retardant inserts in accordance with European standard Cfl-s1 (formerly B1). (Tested by the Textiles & Flooring Institute GmbH.)

**Connection:**

Plastic-coated steel cable

**Automatic door systems:**

**DIN 18650**

Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
510 R	5	10	8,9	500/13	15,5 x 25 x 3	Aluminium		✓	✓	✓			
510 RK	5	10	10,8					✓	✓	✓			
517 R	5	17	9,2	500/20	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>		✓	✓	✓	✓		
517 RB	5	17	10,1					✓	✓	✓	✓		
517 RK	5	17	10,3					✓	✓	✓	✓		
522 R	5	22	10,0	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>	✓	✓	✓	✓	✓		
522 RB	5	22	11,8					✓	✓	✓	✓		
522 RK	5	22	12,3					✓	✓	✓	✓		
527 R	5	27	10,5	500/30	30 x 30 x 3 30 x 30 x 3 30 x 25 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>		✓		✓			
527 RK	5	27	13,0					✓		✓			

Mat divisions as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges on mats requiring curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69



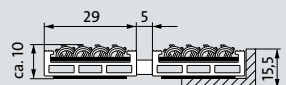
## emco DIPLOMAT with ribbed carpet insert (R)



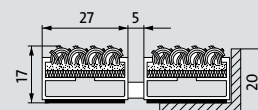
**510 R**



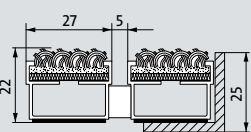
Load-bearing capability:  
Normal



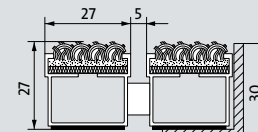
**517 R**



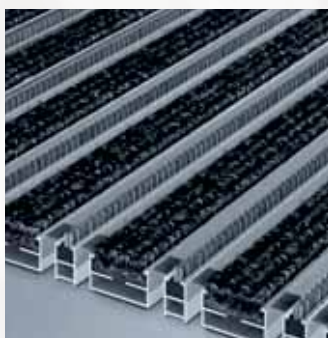
**522 R**



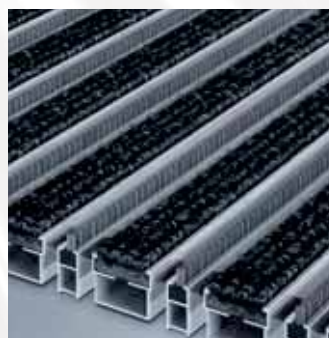
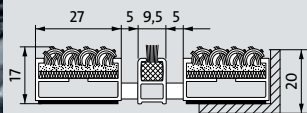
**527 R**



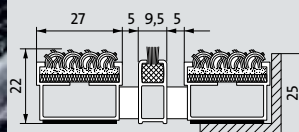
## emco DIPLOMAT with ribbed carpet insert and brush strip (RB)



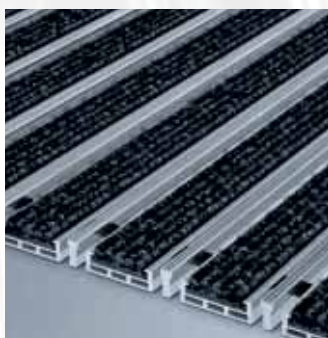
**517 RB**



**522 RB**



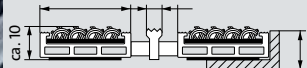
## emco DIPLOMAT with ribbed carpet insert and scraper bar (RK)



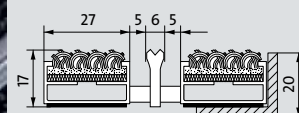
**510 RK**



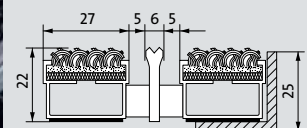
Load-bearing capability:  
Normal



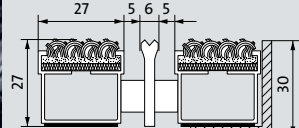
**517 RK**



**522 RK**



**527 RK**





A reliable solution with a special brush-off function. For all buildings with average numbers of visitors and high aesthetic demands. Particularly suitable for picking up fine dirt (zone 2).



# emco DIPLOMAT

## with textile brush insert

**Recommended for:** Indoor and covered outdoor areas

**Load-bearing capacity:** Normal to heavy

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available.

**Passages:** Up to 2000 passages/day (type 510TB and 510 TBK up to 800 passages/day)

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surface:** Robust, weather-proof textile brush made from polypropylene with monofilament structure.  
Type TBB: With additional brush strips mounted between the profiles  
Type TBK: With additional scraper bars mounted between the profiles

**Non-slip properties:**

**DIN 51130**

**Colours:**

R 13 slip resistance (type TBK: R 10) as per DIN 51130

grey, anthracite



**Connection:**

Plastic-coated steel cable

**Automatic door systems:**

**DIN 18650**

Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
510 TB	5	10	9,1	500/13	15,5 x 25 x 3	Aluminium		✓	✓	✓			
510 TBK	5	10	11,0					✓	✓	✓			
517 TB	5	17	9,4	500/20	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>		✓	✓	✓	✓		
517 TBB	5	17	10,3					✓	✓	✓	✓		
517 TBK	5	17	10,5					✓	✓	✓	✓		
522 TB	5	22	10,2	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>	✓	✓	✓	✓	✓		
522 TBB	5	22	12,0				✓	✓	✓	✓	✓		
522 TBK	5	22	12,5				✓	✓	✓	✓	✓		
527 TB	5	27	10,7	500/30	30 x 30 x 3 30 x 30 x 3 30 x 25 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>		✓		✓			
527 TBK	5	27	13,2					✓		✓			

Mat divisions as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

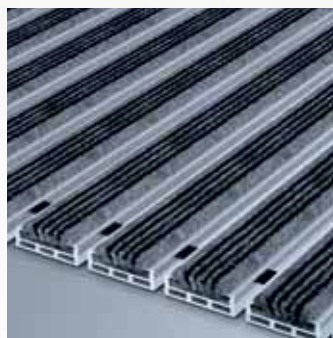
<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69

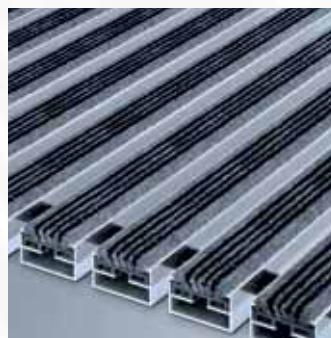
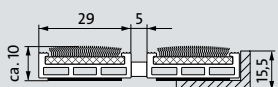




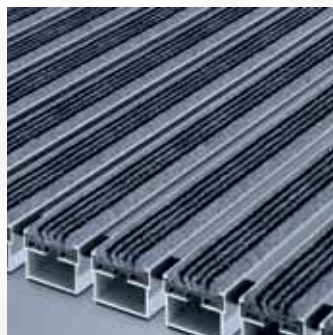
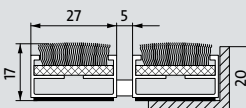
510 TB



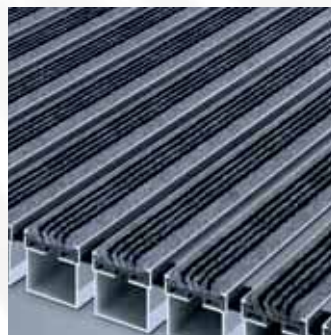
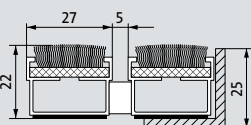
Load-bearing capacity:  
Normal



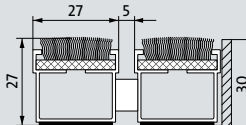
517 TB



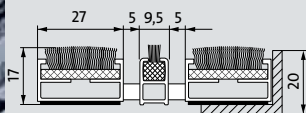
522 TB



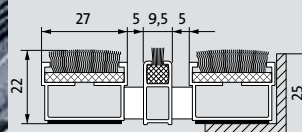
527 TB



517 TBB



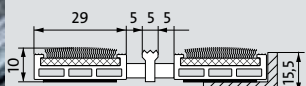
522 TBB



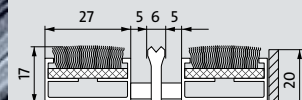
510 TBK



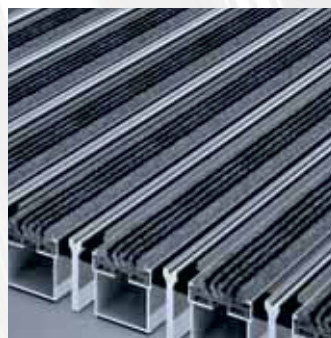
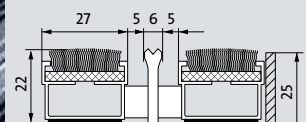
Load-bearing capability:  
Normal



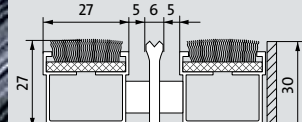
517 TBK



522 TBK



527 TBK





A weather-proof solution for residential buildings, administrative buildings and business premises with average numbers of visitors. Particularly suitable for picking up coarse dirt (zone 1).



# emco DIPLOMAT

## with rubber insert

**Recommended for:** Outdoor/indoor areas

**Load-bearing capacity:** Normal to heavy

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available.

**Passages:** Up to 2000 passages/day (type 510 G and 510 GK up to 800 passages/day)

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surface:** Recessed, robust, weather-proof, profiled rubber inserts.  
Type GB: With additional brush strips mounted between the profiles  
Type GK: With additional scraper bars mounted between the profiles

**Non-slip properties:** R 9 slip resistance as per DIN 51130

**DIN 51130**

**Colours:** Black

**Fire protection:** Type 517G, 522G and 527G: Fire retardant insert in accordance with European standard Bfl-s1 (formerly B1). (Tested by the Textiles & Flooring Institute GmbH.)



**Connection:** Plastic-coated steel cable

**Automatic door systems:** Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
510 G	5	10	11,5	500/13	15,5 x 25 x 3	Aluminium		✓	✓	✓			
510 GK	5	10	12,8					✓	✓	✓			
517 G	5	17	14,4	500/20	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>		✓	✓	✓	✓		
517 GB	5	17	15,2					✓	✓	✓	✓		
517 GK	5	17	16,5					✓	✓	✓	✓		
522 G	5	22	14,3	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>	✓	✓	✓	✓	✓		
522 GB	5	22	14,9					✓	✓	✓	✓		
522 GK	5	22	15,7					✓	✓	✓	✓		
527 G	5	27	17,0	500/30	30 x 30 x 3 30 x 30 x 3 30 x 25 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>		✓		✓			
527 GK	5	27	17,1					✓		✓			

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

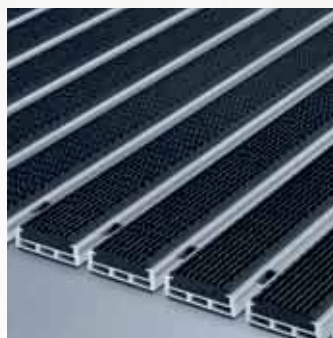
<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62  
For surcharges on mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69



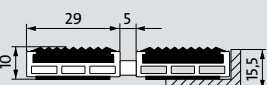
## emco DIPLOMAT with rubber insert (G)



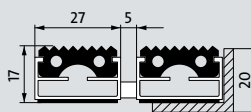
**510 G**



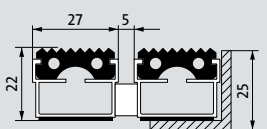
Load-bearing capacity:  
Normal



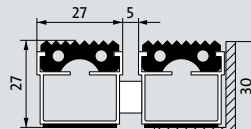
**517 G**



**522 G**



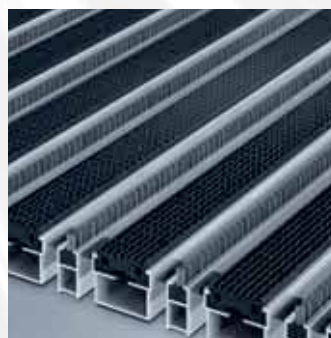
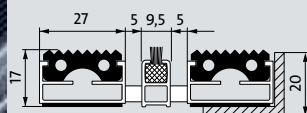
**527 G**



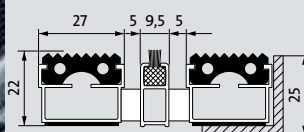
## emco DIPLOMAT with rubber insert and brush strip (GB)



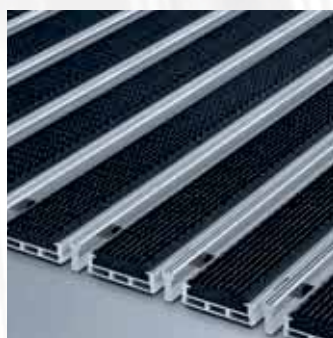
**517 GB**



**522 GB**



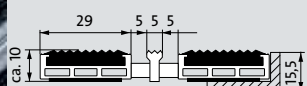
## emco DIPLOMAT with rubber insert and scraper bar (GK)



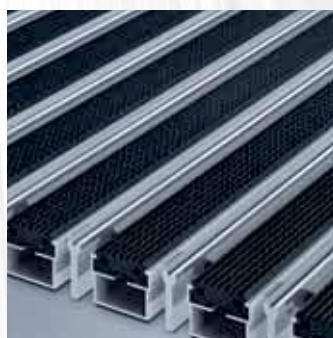
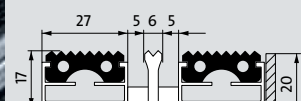
**510 GK**



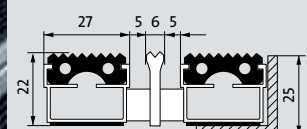
Load-bearing capacity: Normal



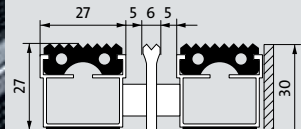
**517 GK**



**522 GK**



**527 GK**





Frequent cleaning programme required for extra large quantities of coarse dirt (zone 1). For residential buildings, administrative buildings and business premises with average numbers of visitors.



# emco DIPLOMAT

## with cassette brush

**Recommended for:** Outdoor areas

**Load-bearing capacity:** Normal to heavy

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available; can be cut through the bristle bundles if necessary.

**Passages:** Up to 2000 passages/day (type 510 CB up to 400 passages/day)

**Suitability for wheeled traffic:** Wheelchairs, hand trolleys

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surface:** Recessed, robust, weather-proof cassette sections, equipped with  
Type CB: Bristle bundles arranged parallel to one another  
Type CBI: Bristle bundles arranged offset to one another

**Non-slip properties:**

R 13 slip resistance as per DIN 51130

**DIN 51130**

**Colours:**

Bristle bundles in grey or black



**Connection:**

Plastic-coated steel cable

**Automatic door systems:**

Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
<b>510 CB</b>	5	10 <sup>5)</sup>	11,5	<b>500/13</b>	15,5 x 25 x 3	Aluminium		✓	✓	✓			
<b>517 CB</b>	5	17 <sup>5)</sup>	11,6	<b>500/20</b>	20 x 30 x 3	Aluminium		✓	✓	✓	✓		
<b>517 CBI</b>	5	17 <sup>5)</sup>	11,6		20 x 25 x 3	Stainless steel <sup>2)</sup>		✓	✓	✓			
<b>522 CB</b>	5	22 <sup>5)</sup>	12,5	<b>500/25</b>	25 x 28 x 3	Aluminium		✓	✓	✓	✓		
<b>522 CBI</b>	5	22 <sup>5)</sup>	12,5		25 x 25 x 3 25 x 30 x 3	Natural brass Stainless steel <sup>2)</sup>	✓	✓	✓	✓			
<b>527 CB</b>	5	27 <sup>5)</sup>	14,5	<b>500/30</b>	30 x 30 x 3	Aluminium		✓		✓			
<b>527 CBI</b>	5	27 <sup>5)</sup>	14,5		30 x 30 x 3 30 x 25 x 3	Natural brass Stainless steel <sup>2)</sup>		✓		✓			

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>5)</sup> Actual mat height for CB insert: + 1 to 2 mm

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges on mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69

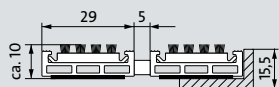




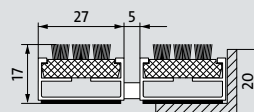
**510 CB**



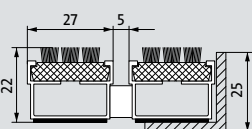
Load-bearing capability:  
Normal



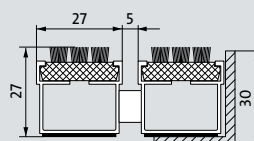
**517 CB**



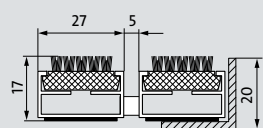
**522 CB**



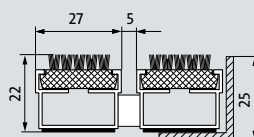
**527 CB**



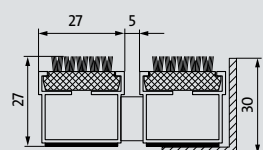
**517 CBI**



**522 CBI**



**527 CBI**





Weather-proof solution that is extra-effective against coarse dirt (zone 1). For residential buildings, administrative buildings and business premises with an average numbers of visitors.



# emco **DIPLOMAT**

with rubber insert and cassette brush

**Recommended for:** Outdoor areas

**Load-bearing capacity:** Normal to heavy

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available; can be cut through the bristle bundles if necessary.

**Passages:** Up to 2000 passages/day (type 510 GCB up to 400 passages/day)

**Suitability for wheeled traffic:** Wheelchairs, hand trolleys

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surface:** Recessed, robust, weather-proof, profiled rubber inserts, combined with cassette sections, equipped with bristle bundles arranged parallel to one another

**Non-slip properties:**

**DIN 51130**

**Colours:**

R 9 (rubber insert) and R 13 (cassette brushes) slip resistance as per DIN 51130

**Rubber insert:** black

**Cassette brushes:** grey, black



**Connection:** Plastic-coated steel cable

**Automatic door systems:** Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
<b>510 GCB</b>	5	10 <sup>5)</sup>	11,1	<b>500/13</b>	15,5 x 25 x 3	Aluminium		✓	✓	✓			
<b>517 GCB</b>	5	17 <sup>5)</sup>	13,7	<b>500/20</b>	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>		✓	✓	✓	✓		
<b>522 GCB</b>	5	22 <sup>5)</sup>	14,0	<b>500/25</b>	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>	✓	✓	✓	✓	✓		
<b>527 GCB</b>	5	27 <sup>5)</sup>	15,8	<b>500/30</b>	30 x 30 x 3 30 x 30 x 3 30 x 25 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>		✓		✓			

Mat combinations as per factory standards (refer to p. 73)<sup>1)</sup>

Rubber spacers

<sup>5)</sup> Actual mat height for CB insert: + 1 to 2 mm

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69





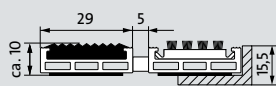
emco DIPLOMAT with rubber insert and cassette brush (GCB)



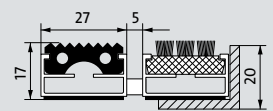
510 GCB



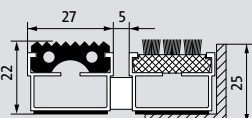
Load-bearing capability: Normal



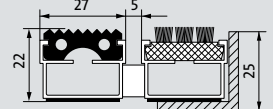
517 GCB



522 GCB



527 GCB





A great all-rounder for zones 1 and 2. For residential buildings, administrative buildings and business premises with average numbers of visitors. Suitable for picking up coarse and fine dirt.



# emco DIPLOMAT

with ribbed carpet inset and cassette brush  
with ribbed carpet and rubber insert

**Recommended for:** Indoor and covered outdoor areas

**Load-bearing capacity:** Normal to heavy

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available; with type RCB, can be cut through the bristle bundles if necessary.

**Passages:** Up to 2000 passages/day (type 510 RCB and 510 RG up to 400 passages/day)

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surfaces:** Recessed, robust, weather-proof ribbed carpet strips, combined with  
Type RCB: Cassette sections, equipped with bristle bundles arranged parallel to one another  
Type RG: Profiled rubber inserts

**Non-slip properties:** R 11 (ribbed carpet), R 13 (cassette brushes) and R 9 (rubber insert) slip resistance as per DIN 51130

**DIN 51130**

**Colours:** Standard ribbed carpet colours: light grey, anthracite, beige, blue; special colours available: mauve, blue/grey, red, brown, turquoise, royal blue, sand and grape. Cassette brush colours: grey, black

**Connection:** Plastic-coated steel cable

**Automatic door systems:** Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
510 RCB	5	10 <sup>5)</sup>	9,8	500/13	15,5 x 25 x 3	Aluminium		✓	✓	✓			
510 RG	5	10	10,2					✓	✓	✓			
517 RCB	5	17 <sup>5)</sup>	10,6	500/20	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>		✓	✓	✓	✓		
517 RG	5	17	11,8					✓	✓	✓	✓		
522 RCB	5	22 <sup>5)</sup>	11,7	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>	✓	✓	✓	✓	✓		
522 RG	5	22	12,2					✓	✓	✓	✓		
527 RCB	5	27 <sup>5)</sup>	12,3	500/30	30 x 30 x 3 30 x 30 x 3 30 x 25 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>		✓		✓			
527 RG	5	27	13,8					✓		✓			

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>5)</sup> Actual mat height for CB insert: + 1 to 2 mm

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69

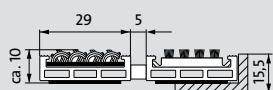




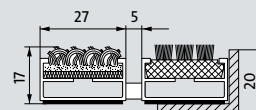
**510 RCB**



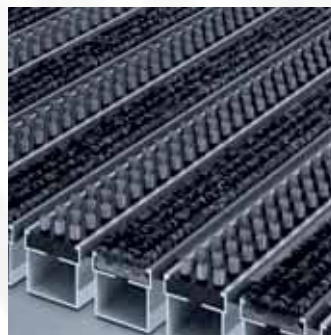
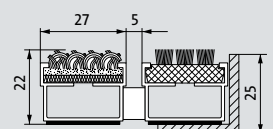
Load-bearing capacity:  
Normal



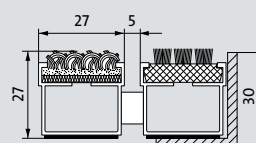
**517 RCB**



**522 RCB**



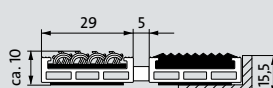
**527 RCB**



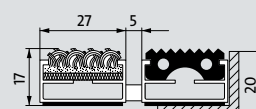
**510 RG**



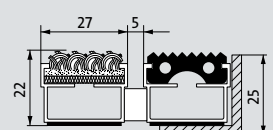
Load-bearing capability:  
Normal



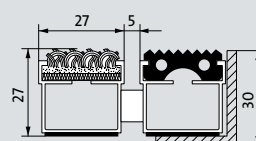
**517 RG**



**522 RG**



**527 RG**





A stylish solution with a carpet-like appearance. For all buildings with average numbers of visitors and requiring a tailored look. Ideal for picking up fine dirt.



# emco DIPLOMAT

with MAXIMUS insert

**Recommended for:** Indoor areas

**Load-bearing capacity:** Normal

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available.

**Passages:** Up to 1000 passages/day

**Suitability for wheeled traffic:** Wheelchairs, shopping trolleys, hand trolleys

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surfaces:** Recessed, robust MAXIMUS inserts (clean-off floor covering made using a unique 100% polyamide fibre)

**Colours:** 12 standard MAXIMUS colours/standard designs (single and patterned): black, anthracite, grey, brown and beige. Single: blue and red.

**Fire protection:** MAXIMUS insert available with fire retardant inserts in accordance with European standard Bfl-s1 (formerly B1). (Tested by the Textiles & Flooring Institute GmbH.)



**Connection:** Plastic-coated steel cable

**Automatic door systems:** Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
517 M	5	17	9,2	500/20	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>		✓	✓	✓	✓		
522 M	5	22	10,0	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>	✓	✓	✓	✓	✓		
527 M	5	27	10,5	500/30	30 x 30 x 3 30 x 30 x 3 30 x 25 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>		✓		✓			

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

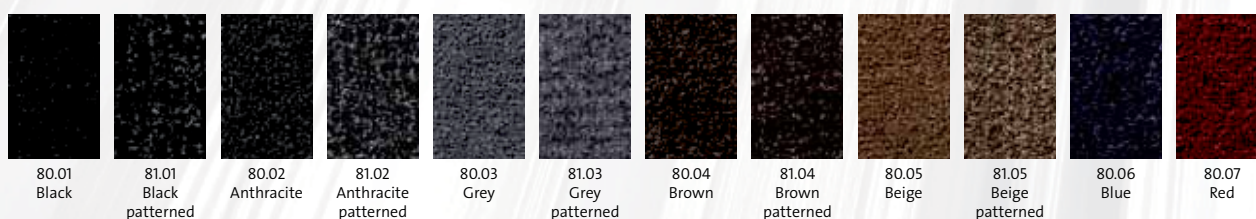
<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69

**Colours:**





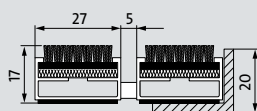


Building: Entrance to emco training centre, Lingen, Germany

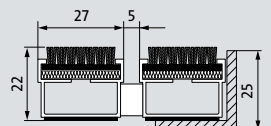
emco DIPLOMAT with MAXIMUS insert (M)



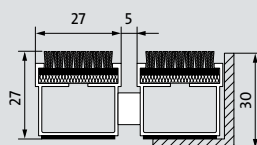
517 M



522 M



527 M





## emco **MARSCHALL** – emco **PLAZA**

### **Ideal for very/exceptionally heavily frequented buildings**

In zone 1 and zone 2, emco MARSCHALL and PLAZA inserts ensure indoor areas are kept clean and create a harmonious overall impression. Here, fine dirt is collected using ribbed carpet inserts, which can be combined with rubber inserts, textile brushes or brush strips if required. The emco ribbed carpet inserts can be replaced with the utmost ease.



Very heavy



Exceptionally  
heavy









Hard-wearing entrance mat systems for very heavily frequented buildings such as shopping centres and airports. Ideal for picking up coarse and/or fine dirt.



# emco **MARSCHALL**

**Recommended for:** Indoor and covered outdoor areas

**Load-bearing capacity:** Very heavy

**Description:** Roll-up, extremely hard-wearing entrance mat for laying on the floor. Can be rolled over and also driven over. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available. With type RCB, can be cut through the bristle bundles if necessary.

**Passages:** From 2000 passages/day

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys, cars, (pallet trucks)

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surfaces:** Recessed, robust, weather-proof coarse fibre ribbed carpet strips (brand-name fibres) for even better dirt removal  
Type RG: Combined with profiled rubber inserts, Type RCB: Combined with cassette sections, equipped with bristle bundles arranged parallel to one another  
Type TB: Textile brush made from polypropylene with monofilament structure

**Non-slip properties:**

**DIN 51130**

**Colours:**

R 9 (rubber insert), R 11 (ribbed carpet insert), R 13 (cassette brush, textile brush) slip resistance

**Ribbed carpet inserts:** standard: light grey, anthracite, beige, blue; special colours available: mauve, blue/grey, red, brown, turquoise, royal blue, sand and grape; refer to p. 16  
**Rubber insert:** black  
**Cassette brushes:** black, grey  
**Textile brushes:** grey, anthracite

**Fire protection:**



Fire retardant inserts in accordance with European standard  
Type 517 S/R and 522 S/R: Cfl-s1 for ribbed carpet colours light grey and anthracite  
Type 517 S/G and 522 S/G: Bfl-s1 (formerly B1) available. (Tested by the Textiles & Flooring Institute GmbH.)

**Connection:**

Plastic-coated steel cable

**Automatic door systems:**

**DIN 18650**

Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well-fang	Substructure
517 S/R	5	17	12,7	500/20	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>							
517 S/RG	5	17	14,7							✓	✓	✓	✓
517 S/RCB	5	17 <sup>5)</sup>	14,0										
517 S/TB	5	17	12,9										
522 S/R	5	22	15,0	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>							
522 S/RG	5	22	18,0										
522 S/RCB	5	22 <sup>5)</sup>	17,5				✓			✓	✓	✓	✓
522 S/TB	5	22	15,2										

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>5)</sup> Actual mat height for CB insert: + 1 to 2 mm

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

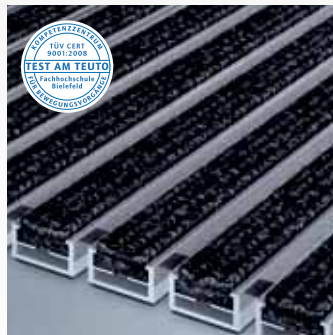
For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69

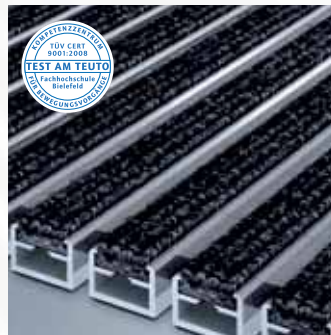
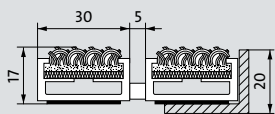


emco MARSCHALL with ribbed carpet insert (R)

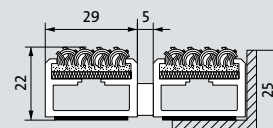
Coarse fibre ribbed carpet



517 S/R



522 S/R

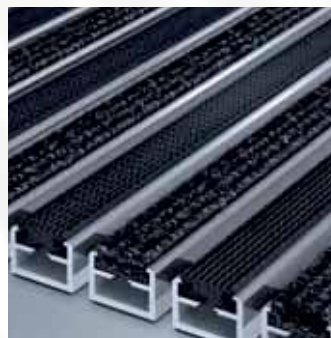
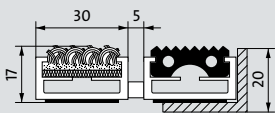


emco MARSCHALL with ribbed carpet and rubber insert (RG)

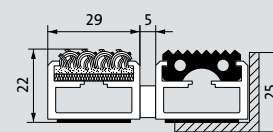
Coarse fibre ribbed carpet



517 S/RG



522 S/RG

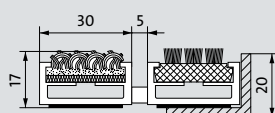


emco MARSCHALL with ribbed carpet insert and cassette brush (RCB)

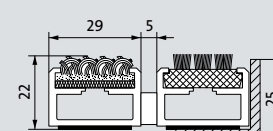
Coarse fibre ribbed carpet



517 S/RCB

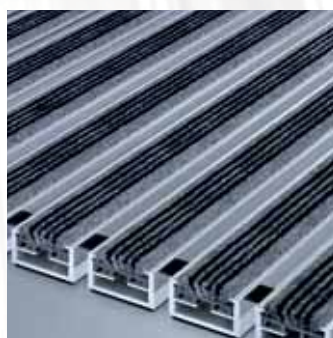


522 S/RCB

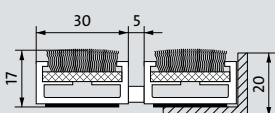


emco MARSCHALL with textile brush insert (TB)

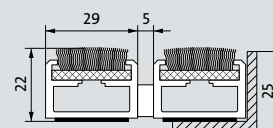
NEW



517 S/TB



522 S/TB





A weather-proof option from the range of robust solutions, extra-effective against coarse dirt (zone 1).  
For very heavily frequented buildings.



# emco **MARSCHALL**

**Recommended for:** Outdoor areas

**Load-bearing capacity:** Very heavy

**Description:** Roll-up, extremely hard-wearing entrance mat for laying on the floor. Can be rolled over and also driven over. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available. With types CB and GCB, can be cut through the bristle bundles if necessary.

**Passages:** From 2000 passages/day

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys, cars, pallet trucks

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surfaces:** Recessed, robust, weather-proof, profiled rubber inserts and/or cassette sections, equipped with bristle bundles arranged parallel to one another.

**Non-slip properties:**

**DIN 51130**

**Colours:**

R 9 (rubber insert) and R 13 (cassette brushes) slip resistance as per DIN 51130

**Rubber insert:** black

**Cassette brushes:** grey, black

**Fire protection:**



Fire retardant inserts in accordance with European standard Type 517 S/G and 522 S/G: fire behaviour in accordance with European standard Bfl-s1 (formerly B1) available. (Tested by the Textiles & Flooring Institute GmbH.)

**Connection:**

Plastic-coated steel cable

**Automatic door systems:**

**DIN 18650**

Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>5)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>			Accessories <sup>4)</sup>						
				Frame type	Dimensions in mm (H x W x D)	Material	LUMINA frame	Stainless steel profile	Ramp edge	Cover strip	T-profile	Dirt collection well	Substructure
<b>517 S/G</b>	5	17	16,8	<b>500/20</b>	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>							
<b>517 S/CB</b>	5	17 <sup>5)</sup>	15,3							✓	✓	✓	✓
<b>517 S/GCB</b>	5	17 <sup>5)</sup>	16,0										
<b>522 S/G</b>	5	22	21,0	<b>500/25</b>	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>							
<b>522 S/CB</b>	5	22 <sup>5)</sup>	18,5				✓			✓	✓	✓	✓
<b>522 S/GCB</b>	5	22 <sup>5)</sup>	20,5										

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>5)</sup> Actual mat height for CB insert: + 1 to 2 mm

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)  
For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69



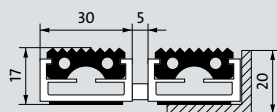


Shopping centre, London

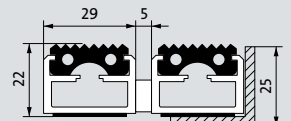
#### emco MARSCHALL with rubber insert (G)



517 S/G



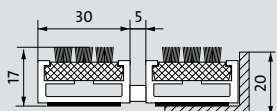
522 S/G



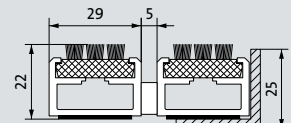
#### emco MARSCHALL with cassette brush (CB)



517 S/CB



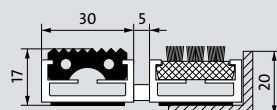
522 S/CB



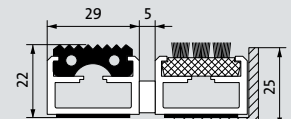
#### emco MARSCHALL with rubber insert and cassette brush (GCB)



517 S/GCB



522 S/GCB





The toughest of all the robust entrance mat systems available.  
For exceptionally heavily frequented buildings such as shopping centres and airports. For increased collection of coarse and fine dirt.



# emco PLAZA

**Recommended for:** Outdoor areas:  
Types 542 S/G, 542 S/CB and 542 S/GCB  
Indoor and covered outdoor areas:  
Types 542 S/R, 542 S/RG and 542 S/RCB

**Load-bearing capacity:** Exceptionally heavy

**Description:** Roll-up, extremely hard-wearing entrance mat for heavy loads; for laying on the floor. Can be rolled over and also driven over by pallet trucks and goods vehicles. The special profile shape and height enable more dirt to be collected between the profiles. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available; with types S/CB, S/RCB and S/GCB, can be cut through the bristle bundles if necessary.

**Passages:** From 5000 passages/day

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys, pallet trucks, cars, HGVs (up to 7.5 t)

**Support chassis:** Thick-walled, rigid aluminium with sound insulation underlay

**Tread surfaces:** Recessed, robust, weather-proof coarse fibre ribbed carpet strips (brand-name fibres) for even better dirt removal, profiled rubber inserts and/or cassette sections, equipped with bristle bundles arranged parallel to one another.

**Non-slip properties:** R 9 (rubber insert), R 11 (ribbed carpet insert),- R 13 (cassette brushes) slip resistance

**DIN 51130**

**Colours:**

**Rubber inserts:** black

**Cassette brushes:** grey, black

**Ribbed carpet inserts:** standard: light grey, anthracite, beige, blue; special colours available: mauve, blue/grey, red, brown, turquoise, royal blue, sand and grape; refer to p. 16

**Fire protection:** Fire retardant inserts in accordance with European standard



Type 542S/G: Bfl-s1  
Type 542S/R: Cfl-s1 (formerly B1) available for ribbed carpet colours light grey and anthracite (Tested by the Textiles & Flooring Institute GmbH.)

**Connection:** Plastic-coated steel cable

**Automatic door systems:** Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )
542 S/G	5	42	34,1
542 S/CB	5	42	27,7
542 S/GCB	5	42 <sup>5)</sup>	31,1
542 S/R	5	42	25,0
542 S/RG	5	42	29,3
542 S/RCB	5	42 <sup>5)</sup>	26,4

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>5)</sup> Actual mat height for CB insert: + 1 to 2 mm

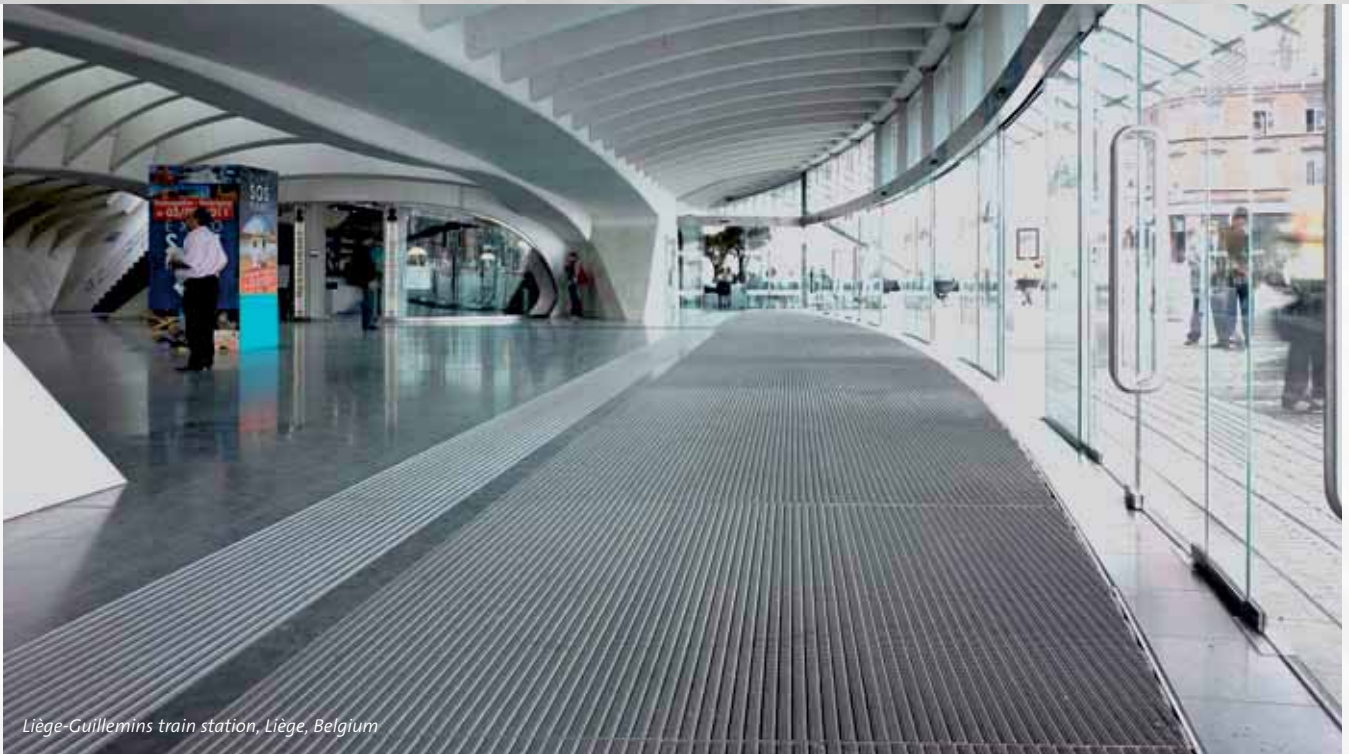
Installation frame <sup>3)</sup>		
Frame type	Dimensions in mm (H x W x D)	Material
500/46	47,5 x 35 x 4,5 46 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74



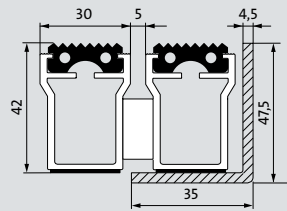


Liège-Guillemins train station, Liège, Belgium

#### emco PLAZA with rubber insert (G)



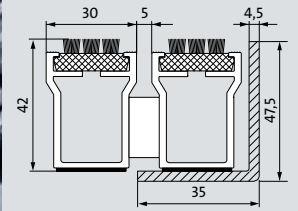
542 S/G



#### emco PLAZA with cassette brush (CB)



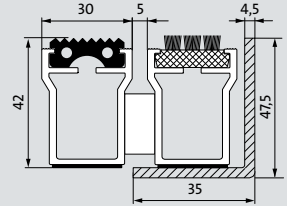
542 S/CB



#### emco PLAZA with rubber insert and cassette brush (GCB)



542 S/GCB

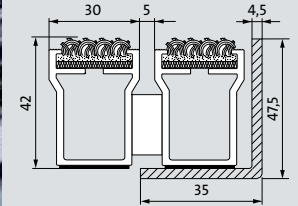


#### emco PLAZA with ribbed carpet insert (R)

Coarse fibre  
ribbed carpet



542 S/R

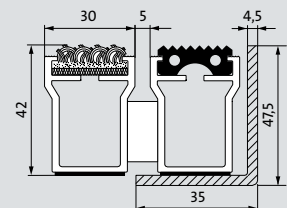


#### emco PLAZA with ribbed carpet and rubber insert (RG)

Coarse fibre  
ribbed carpet



542 S/RG

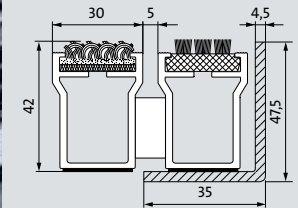


#### emco PLAZA with ribbed carpet insert and cassette brush (RCB)

Coarse fibre  
ribbed carpet



542 S/RCB





## emco **SENATOR**, emco **RADIAL**, emco **KADETT** and emco **GS 517**

### Ideal for areas with special requirements

emco has the right entrance mat to suit any requirement, in both indoor and covered outdoor areas. The extra-wide designs of the SENATOR options combine a harmonious appearance with excellent resilience. RADIAL is the ideal solution for entrance areas that make a real architectural impact and feature rounded designs. GS 517, meanwhile, is an alternative system with a closed design that is suitable for very heavily frequented buildings such as shopping centres. Finally, KADETT represents a special solution for entrance areas with security tagging equipment.







Extra-wide options for all buildings with high demands in terms of resilience and a harmonious look. Particularly suitable for picking up fine dirt (zone 2).



# emco **SENATOR**

with ribbed carpet insert  
with MAXIMUS insert

<b>Recommended for:</b>	Indoor and covered outdoor areas
<b>Load-bearing capacity:</b>	Normal, type 522 W/SR: very heavy
<b>Description:</b>	Roll-up, hard-wearing entrance mat with extra-wide profile bars, for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available.
<b>Passages:</b>	Up to 2000 passages/day (type 522 M up to 1000 passages/day)
<b>Suitability for wheeled traffic:</b>	Wheelchairs, (shopping trolleys), hand trolleys Type W/SR: also cars and pallet trucks
<b>Support chassis:</b>	Thick-walled, rigid aluminium with sound insulation underlay
<b>Tread surface:</b>	Type R/SR: Recessed, robust, weather-proof ribbed carpet strips Type RB/RK: With additional brush strips/scrapper bars mounted between the profiles Type M: Recessed, robust MAXIMUS inserts (clean-off floor covering made from 100% polyamide fibre)

**Non-slip properties:**

R 11 slip resistance as per DIN 51130

**DIN 51130**

**Colours:**

**Ribbed carpet (standard):** light grey, anthracite, beige, blue; special colours available: mauve, blue/grey, red, brown, turquoise, royal blue, sand and grape; refer to p. 16

**MAXIMUS insert:** 12 standard colours/standard designs (single and patterned): black, anthracite, grey, brown and beige. Single: blue and red.  
**Production of customised „logo mats in aluminium profile“ available.**

**Connection:**

Plastic-coated steel cable

**Automatic door systems:**

Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile-clearance <sup>5)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>6)</sup>			Accessories <sup>7)</sup>						
				Frame-type	Dimensions in mm (H x W x D)	Material	LUMINA-frame	Stainless-steel profile	Ramp-edge	Cover-strip	T-profile	Dirt-collection well	Sub-structure
522 W/R	5	22	10,6	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>3)</sup>	✓	✓	✓	✓	✓		
522 W/RB	5	22	13,0				✓	✓	✓	✓	✓		
522 W/RK	5	22	12,5				✓	✓	✓	✓	✓		
522 WS/R	5	22	15,4				✓			✓	✓	✓	✓
522 W/M	5	22	10,6				✓	✓	✓	✓	✓		

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

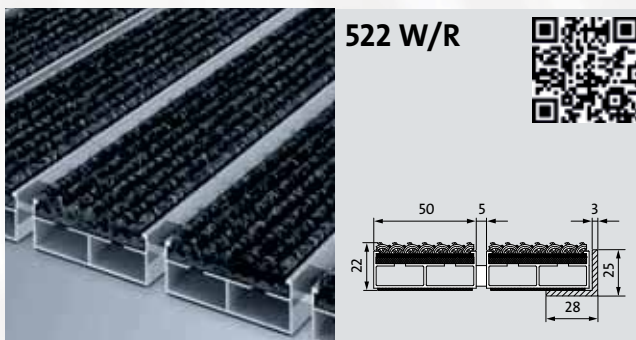
<sup>3)</sup> For details of installation frames, refer to p. 62  
For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

<sup>4)</sup> For details of accessories, refer to p. 66-69

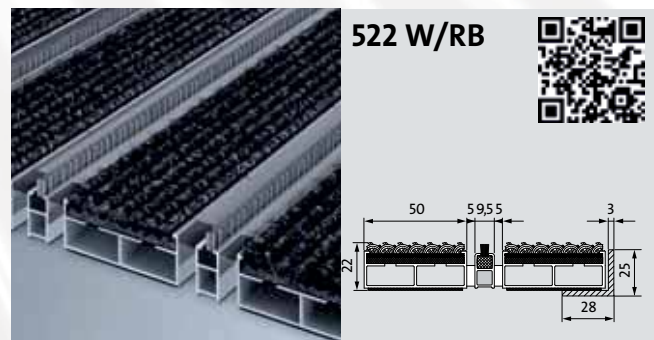




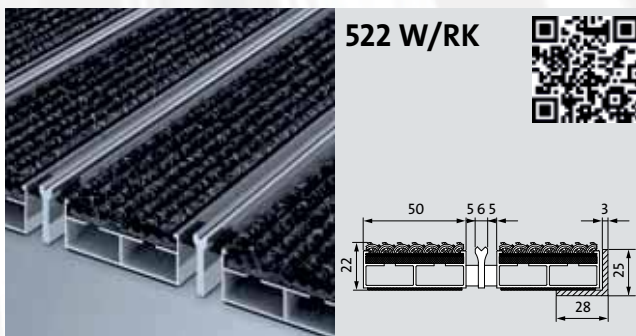
emco **SENATOR** with ribbed carpet insert (R)



emco **SENATOR** with ribbed carpet insert and brush strip (RB)



emco **SENATOR** with ribbed carpet insert and scraper bar (RK)

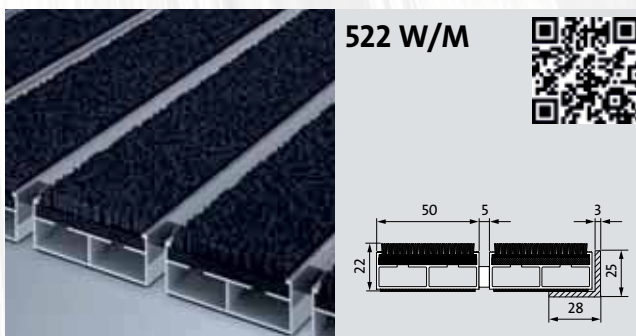


emco **SENATOR** reinforced profile with ribbed carpet insert (R)

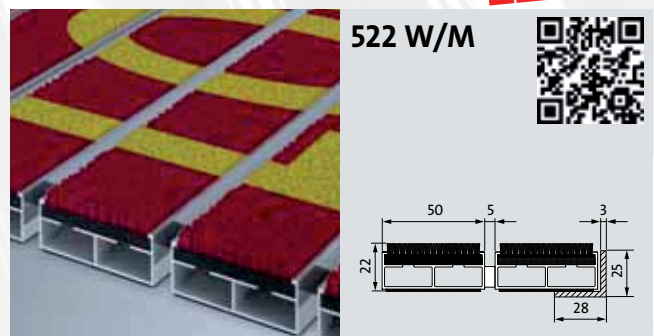


Load-bearing  
capacity:  
Very heavy

emco **SENATOR** with MAXIMUS insert (M)



emco **SENATOR** IMAGE with MAXIMUS insert (M)



Customised image  
printing option





# emco RADIAL

## with ribbed carpet insert

**Recommended for:** Indoor and covered outdoor areas

**Load-bearing capacity:** Heavy to very heavy

**Description:** Hard-wearing, curved entrance mat; installation frame and entrance mat as a single unit; for laying on the floor. Can be rolled over and also driven over by pallet trucks and goods vehicles. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available.

**Passages:** From 2000 passages/day

**Suitability for wheeled traffic:** Wheelchairs, shopping trolleys, hand trolleys, pallet trucks

**Support chassis:** Made from rigid aluminium with sound insulation underlay

**Tread surface:** Recessed, robust, weather-proof ribbed carpet strips

**Non-slip properties:** R 11 slip resistance

**DIN 51130**

**Colours:** Standard: light grey, anthracite, beige, blue; special colours available: mauve, blue/grey, red, brown, turquoise, royal blue, sand and grape; refer to p. 16

**Fire protection:** Fire retardant inserts in accordance with European standard Cfl-s1 (formerly B1) available. (Tested by the Textiles & Flooring Institute GmbH.)



**Connection:** Threaded stainless steel rod

**Automatic door systems:** Profile clearance of 3 mm available as an option for automatic door systems, in accordance with DIN 18650

**DIN 18650**

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>		
				Frame type	Dimensions in mm (H x W x D)	Material
522 RD/R	5	22	19,2	500/25	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel <sup>2)</sup>

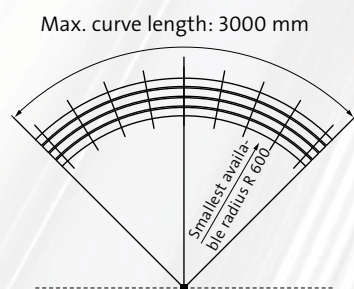
Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

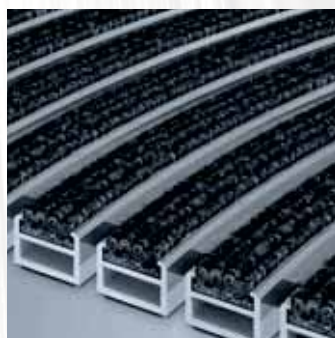
For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74



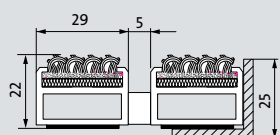




emco **RADIAL (RD)** with ribbed carpet insert (R)



**522 RD/R**





The alternative system with a closed design for very heavily frequented buildings. Ideal for picking up coarse and fine dirt.



# emco GS 517

## closed profile

<b>Recommended for:</b>	Outdoor areas: type GS 517 G Indoor and covered outdoor areas: type GS 517 TB Indoor areas: type GS 517 M
<b>Load-bearing capacity:</b>	Heavy to very heavy
<b>Description:</b>	Closed, hard-wearing entrance mat with integrated scraper bar, for laying on the floor. Any geometric shape is available.
<b>Begehung:</b>	From 2000 passages/day
<b>Suitability for wheeled traffic:</b>	Wheelchairs, shopping trolleys, hand trolleys, cars, pallet trucks
<b>Support chassis:</b>	Made from rigid aluminium with sound insulation underlay
<b>Tread surface:</b>	Recessed, robust Type G: Weather-proof profiled rubber inserts Type TB: Weather-proof textile brush made from polypropylene with monofilament structure Type M: MAXIMUS inserts (clean-off floor covering made from a unique 100% polyamide fibre)

### Colours:

**Rubber inserts:** black

**Textile brush inserts:** grey, anthracite

**MAXIMUS inserts:** 12 standard colours/standard designs (single and patterned): black, anthracite, grey, brown and beige. Single: blue and red.

### Fire protection:



Fire retardant inserts in accordance with European standard

Type GS 517 TB: Cfl-s1 (formerly B1)

Type GS 517 M: Bfl-s1 (formerly B1)

(Tested by the Textiles & Flooring Institute GmbH.)

### Connection:

Plastic coated steel wire

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Approx. height (mm)	Weight (kg/m <sup>2</sup> )
<b>GS517 G</b>	17	17,4
<b>GS517 TB</b>	17	14,8
<b>GS517 M</b>	17	15,2

Mat combinations as per factory standards (refer to p. 73)

Installation frame <sup>3)</sup>		
Frame type	Dimensions in mm (H x W x D)	Material
<b>500/20</b>	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel <sup>2)</sup>

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74

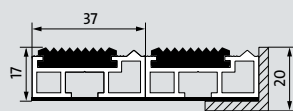




emco GS 517 with rubber insert (G)



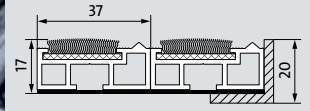
GS 517 G



emco GS 517 with textile brush insert (TB)



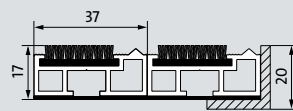
GS 517 TB



emco GS 517 with MAXIMUS insert (M)



GS 517 M







# emcoKADETT

**Recommended for:** Indoor and covered outdoor areas: 515 R

**Load-bearing capacity:** Normal to heavy

**Description:** Roll-up, hard-wearing entrance mat for laying on the floor. Mats produced to fit width and walking depth specifications perfectly, without the need for adjustment profiles. Any geometric shape is available.

**Passages:** Up to 400 passages/day

**Suitability for wheeled traffic:** Wheelchairs, (shopping trolleys), hand trolleys

**Support chassis:** Type 515 R: Made from light grey, high-quality hard plastic, underside with built-in non-slip soft plastic strips (temperature resistant up to approx. 40°C)

**Tread surface:** Type 515 R: Recessed, robust, weather-proof ribbed carpet strips

**Colours:** Type 515 R: Ribbed carpet colours: light grey, anthracite, beige, blue

**Connection:** Plastic coated stainless steel cable

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)

Type	Standard profile-clearance <sup>1)</sup> approx. (mm)	Approx. height (mm)	Weight (kg/m <sup>2</sup> )	Installation frame <sup>3)</sup>		
				Frame type	Dimensions in mm (H x W x D)	Material
515 R	5	15	6,2	500/18	18 x 28 x 3	Aluminium

Mat combinations as per factory standards (refer to p. 73)

<sup>1)</sup> Rubber spacers

<sup>2)</sup> Stainless steel, material no. 1.4301 (V2A)

<sup>3)</sup> For details of installation frames, refer to p. 62

For surcharges with mats that have curved designs, cut-outs and angled designs, refer to p. 74



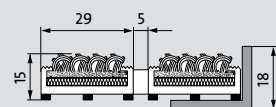


Building: Camel Store, Lingen, Germany

emco **KADETT** synthetic matting with ribbed carpet insert (R)



515 R



## emco installation frame 500

The emco installation frame 500 consists of angled profiles with mitred corners. The sturdy gusset plates supplied ensure a screw connection that is true to size. The scope of delivery includes wall anchors; stainless steel versions for use in wet areas are available on request. The frame is supplied either ready for assembly or pre-assembled (e.g. in the case of frames with curved sections or several sections, etc.).

Type	Dimensions (H x W x D) in mm	Material
<b>500 / 13</b>	15,5 x 25 x 3	Aluminium
<b>500 / 18</b>	18 x 28 x 3	Aluminium
<b>500 / 20</b>	20 x 30 x 3 20 x 25 x 3	Aluminium Stainless steel*
<b>500 / 25</b>	25 x 28 x 3 25 x 25 x 3 25 x 30 x 3	Aluminium Natural brass Stainless steel*
<b>500 / 30</b>	30 x 30 x 3 30 x 30 x 3 30 x 25 x 3	Aluminium Natural brass Stainless steel*
<b>500 / 46</b>	47,5 x 35 x 4,5 46 x 25 x 3	Aluminium Stainless steel*

\*Material no. 1.4301 (V2A)



Aluminium version



Brass version



Stainless steel version

**Full details:** [www.emco.de/uk](http://www.emco.de/uk)



### Installation guide

The emco frame (1) must be level with both the screed (2) in the mat well and the floor covering (3). Mat and mat well: The mat well base (4), which is usually screed, must be level. Any unevenness in the mat well must be smoothed out – we recommend using a self levelling smoothing compound. The emco frame anchor (5) is cast in the screed.

### emco T-profile

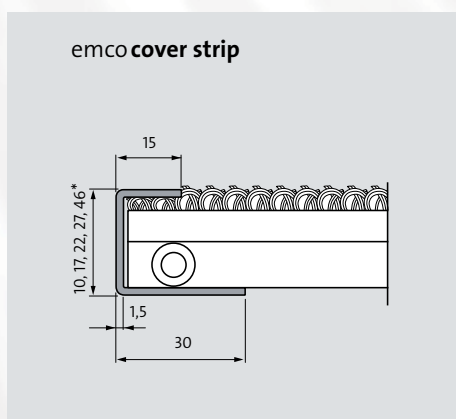
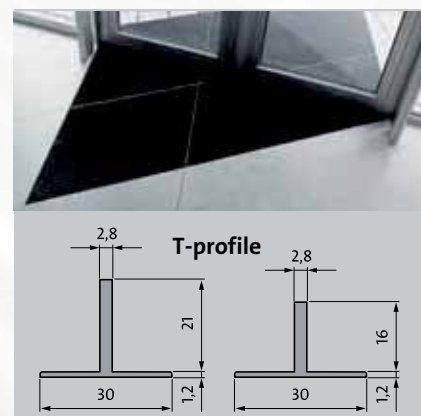
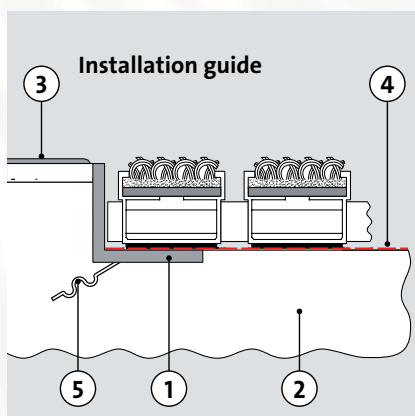
Aluminium profile for creating visual separation of adjacent entrance mats. Available for mat heights of 17 and 22 mm.

### emco cover strip

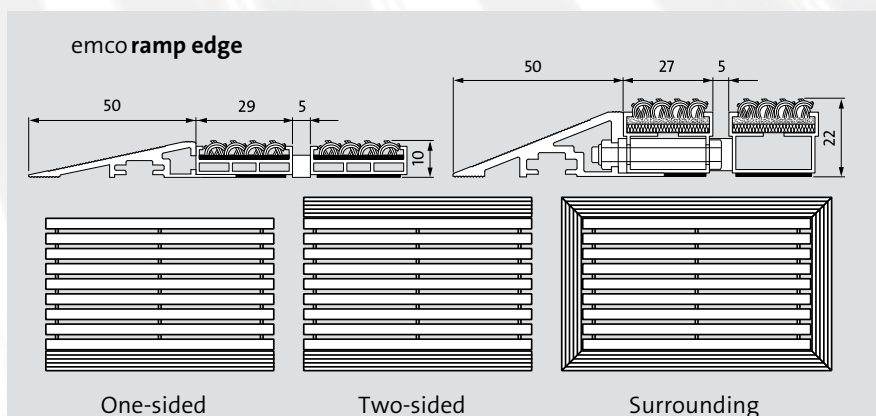
Brushed and ground surface (V2A); designed to protect and cover highly mitted and angled edges in specially shaped emco entrance mats.

### emco ramp edge

With its gradient, the emco ramp edge (with profiled tread surface made from aluminium) guarantees stumble-free access onto the mat. For emco DIPLO-MAT entrance mats (heights 10, 17 and 22 mm) that are laid on finished floors at ground level.



\* The actual cover strip heights may be greater, depending on the specific material used



Type	Material	Material thickness (mm)
T-profile	Aluminium	1,2
Cover strip	Stainless steel*	1,5
Ramp edge	Aluminium	1,5

\* Material no. 1.4301 (V2A)

Full details: [www.emco.de/uk](http://www.emco.de/uk)



Building: Entrance to emco Factory 1, Lingen, Germany

**The illuminated frame system for entrance mats, also available with a stainless steel profile**

Combine emco's tried-and-tested entrance mats with the emco LED frame system can turn a simple entrance area into a real highlight. Airport, hotel or office building – the emco illuminated frame combines practicality with a unique type of elegance.

**Benefits of the emco LUMINA illuminated frame:**

- Highly energy-saving
- Easy to install
- Service life of up to 100,000 hours
- Waterproof, impact-resistant LED strip
- Suitable for indoor and outdoor use
- Tailored design options
- Cutting-edge design
- A stylish highlight





## emco LUMINA

The emco illuminated frame is composed of a base section and an LED holder section, made from anodised aluminium in a natural colour. The LEDs are enclosed in transparent plastic, making them waterproof (IP66) and impact-resistant, and are fitted to the top of the holder section. The electrical installation of the light fitting complies with international protection class IP66. The holder section clicks into the base section from the side, and the LED technology is integrated into the interior. The emco illuminated frame has a top edge of 30 mm, a bottom edge of 52 mm and a height of 25 mm, and can be combined with all emco entrance mat types with an installation height of 22 mm (special shapes are not available). The LED hose is fixed to the LED holder section, and has dimensions of 6 x 12 mm.

**Frame material:** Al Mg Si 0.5

**Frame dimensions:** 25 x 30 x 52 x 2.8 mm

**Surface for both profiles:** Natural colour, anodised E6 CO

**Max. profile length:** 3.5 m

**Appearance of base profile (visible surface):** With longitudinal grooves

**Frame for mat height:** 22 mm

**Suitable mat types:** DIPLOMAT, MARSCHALL, SENATOR; with 22 mm construction height

**Illumination:** Both sides of the entrance matting system installed.

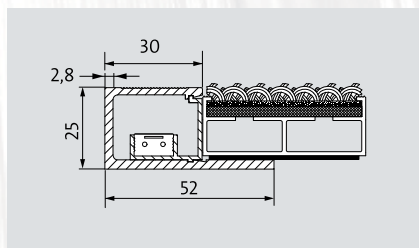
**LED spacing:** 57.3 mm

**Material covering cap:** Transparent plastic

**LED colour:** White

**Temperature range:** - 40 to +85°C

**Voltage:** 24 V



## emco LUMINA VIA

The emco LUMINA VIA illuminated frame system is the elegant and convenient solution that is designed to enhance and supplement your emco mat systems. Choose the specific colours you want for the emco illuminated frame and select a control method from the following three options: remote control, iPad or smartphone. emco LUMINA VIA is set in an aluminium installation profile and is suitable for both indoor and outdoor areas. The emco illuminated frame system can be walked on and driven over.

**Angled/cover profile:** Aluminium EN AW-6060 T66, natural anodised\*

**Nominal voltage:** 12 VDC

**LED colours:** White/RGB (multicolour)

**Power, monochrome:** 7 W/run. m

**Power, RGB/multicolour:** 7.5 W/run. m

**LED service life:** Up to 100,000 h

**Ambient temperature:** -40 to +85°C

**Protection class:** III extra-low voltage

**Degree of protection (illuminated frame):** IP68 (3 m)

**Material:** Aluminium, fully encapsulated

**Encapsulation:** 2-component polyurethane casting resin

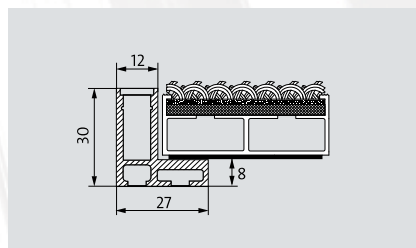
**Load-bearing capacity:** Suitable for installation in floors and for walking on/for wheelchairs/trolleys etc. with inflated tyres, 30 kN (acc. to DIN EN 60598-2-13)

**UV resistance:** Exists

**Weight:** Approx. 750 g/run. m

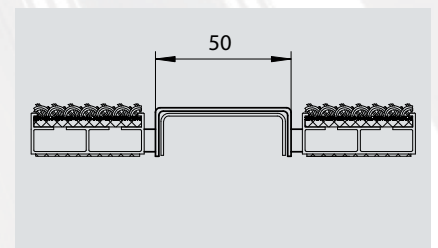
**Connectors:** Butt connector/corner connector 90°\*

\* Others available on request



## emco stainless steel profile

Enhance your entrance area by incorporating lettering in a stainless steel profile into your emco entrance mat system. The text is laser-cut into a high-quality stainless steel profile, which is permanently integrated in the emco entrance mat system. Suitable for mat types DIPLOMAT 517 / 522 and SENATOR.



Full details: [www.emco.de/uk](http://www.emco.de/uk)



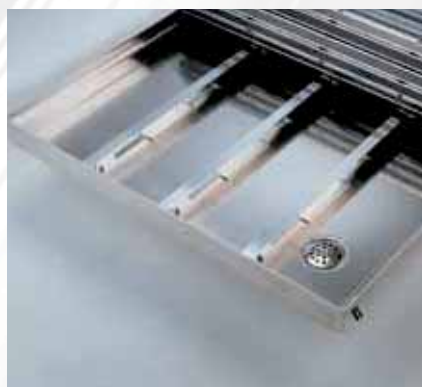
emco dirt collection wells are a must wherever you want to keep increased occurrences of dirt in heavily frequented entrance areas under control. With the more robust MARSCHALL and PLAZA types of entrance mats, you can create a unit that can't be beaten in terms of cleaning effectiveness and practicality.

**Structure:** An emco dirt collection well unit can consist of either a single well or multiple wells which may vary in width and depth, assembled in a modular fashion. From a visual and functional perspective, the entrance mat is manufactured either in the same size and without a frame, or – more commonly – with a frame.

**Freedom to create your own individual design:**

In spite of the rectangular shape of the wells, there are no limits to how creative you can be when it comes to tailoring the mat to your own specifications. Architecturally inviting entrances demand a harmoniously integrated entrance mat. In these cases, the wells are often only used in areas where the greatest amounts of dirt occur, and the entrance mats far exceed what is required.

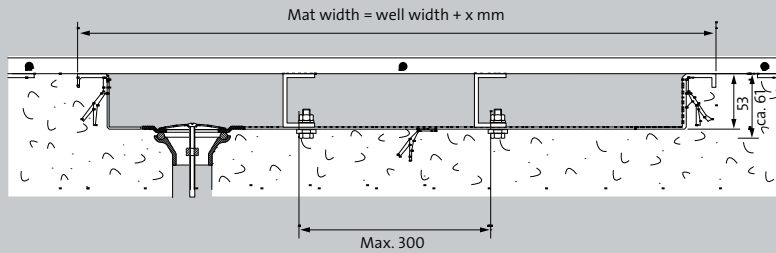
**Special shapes:** emco dirt collection wells are also available in special shapes (such as curved shapes) to ensure they are the perfect match for the building in question. Please contact us for further information.



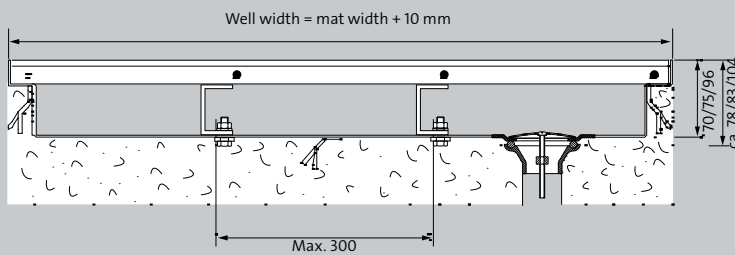


**NEW** Now also available  
in stainless steel.

## 5000



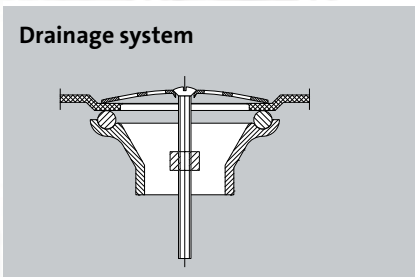
## 5017 / 5022 / 5042



Type	Well height (mm)	Overall height (mm)	Installation height (dep. on screws used) (mm)	Max. width, one piece (mm)	Max. depth, one piece (mm)	Weight (kg/m <sup>2</sup> )
<b>5000</b> MARSCHALL/PLAZA	53	—	ca. 61	2800	1300	13,0
<b>5017</b> MARSCHALL	—	70	ca. 78	2800	1300	13,5
<b>5022</b> MARSCHALL	—	75	ca. 83	2800	1300	13,7
<b>5042</b> PLAZA	—	96	ca. 104	2700	1200	14,4

Customised well heights available on request

## Drainage system



Full details: [www.emco.de/uk](http://www.emco.de/uk)

**Material:** Aluminium (AlMg 1), bonded and watertight, interior completely smooth for easy cleaning. Also available in stainless steel (V2A) on request.

**Support profiles:** Aluminium (AlMgSi 0.5), stainless steel (V2A), max. spacing 300 mm with recesses for all-around water drainage. These profiles must run laterally at an angle of 90° beneath the profiles.

**Type 5000:** There is no surrounding edging frame for the entrance mat. MARSCHALL type 517 S/522 S and PLAZA type 542 S are larger due to their special design and can be fitted with an additional frame on request.

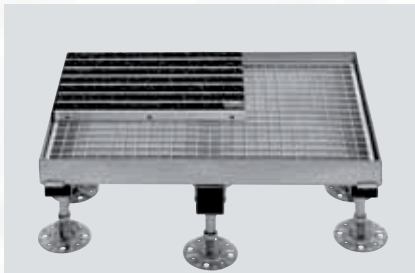
**Types 5017, 5022 and 5042:** The support for the emco entrance mat is integrated into the well.

**Larger dimensions:** Several well units are screwed together on site to form a single system.

**Fittings:** With welded wall anchors; emco drainage system available on request.

**Drainage system:** Complete drainage system, consisting of a flat outlet (Ø 80 mm) made from stainless steel and a plastic lower part for subsequent connection to the drainage system (Ø 1 1/2 inches).

**Load specifications:** p. 75



Design A with grid and MARSCHALL 522 S/R



Design B with grid and MARSCHALL 522 S/R



Design A without grid and with PLAZA 542 S/R



Design C without grid and with PLAZA 542 S/R



Design A with grid and MARSCHALL 522 S/R, floor profile

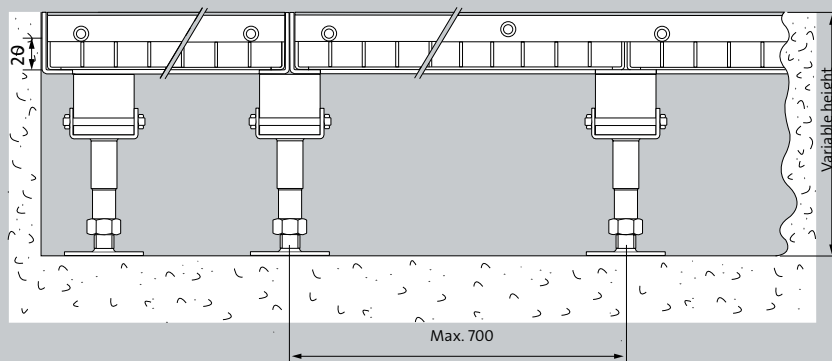
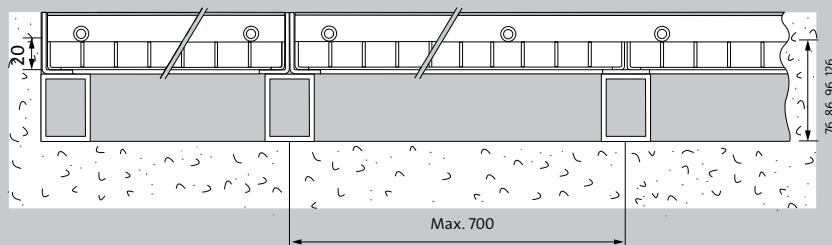
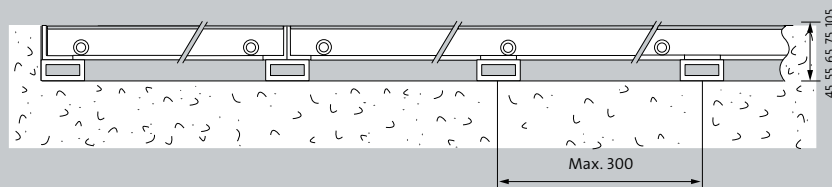
As a particularly effective alternative to emco dirt collection wells, emco substructures offer a way of dealing with even extremely heavy soiling during very long cleaning intervals. Designs B and C are available with fixed installation heights, and design A permits flexible heights up to a maximum of 280 mm. emco substructures are designed to be combined with emco MARSCHALL and PLAZA entrance mats, which can withstand heavier loads. The solid structure of the PLAZA types allows the substructure to be installed without a grid.

**Structure:** The emco installation frames consist of angled profiles (stainless steel) with mitred corners that are screwed into place using gusset plates. Extensive widths can be separated by using two angled profiles screwed together. The frames are supplied with wall anchors.

**Special shapes:** Substructures are also available in special shapes (such as curved shapes) to ensure they are the perfect match for the building in question. Please contact us for further information.





**Substructure, design A:****emco special height-adjustable frame with grid support****Substructure, design B:****emco special frame with grid support and rectangular tube profiles****Substructure, design C:****emco special frame with rectangular tube profiles****Substructure, design A:**

Supporting substructure (hot-dip galvanised) consisting of grids and tube profiles screwed to the underside; also featuring construction height-adjustable supports made from galvanised steel.

**Substructure, design B:**

Supporting substructure (hot-dip galvanised), consisting of grids and tube profiles screwed to the underside.

**Substructure, design C:**

Supporting substructure (hot-dip galvanised), consisting of tube profiles screwed to the underside.

Substructure A, B and C: Only suitable for persons and lightweight wheeled traffic.  
Not suitable for pallet trucks, etc.

Design	Installation frame material	Frame dimensions (H x W x D) in mm	Installation heights in mm	Max. rectangular tube profile clearance (mm)
<b>A</b> with grid	1.4301 (V2A)	46 x 25 x 3	195 - 280	700
<b>B</b> with grid	1.4301 (V2A)	46 x 25 x 3	76, 86, 96, 126	700
<b>C</b> without grid	1.4301 (V2A)	25 x 28 x 3	45, 55, 65, 75, 105	300
<b>C</b> without grid	1.4301 (V2A)	46 x 25 x 3	66, 76, 86, 96, 126	300

Full details: [www.emco.de/uk](http://www.emco.de/uk)

emco entrance mats are constructed in such a way that the majority of the dirt falls through the gaps and into the mat well. Nevertheless, regular care and cleaning are necessary in order to prolong the effectiveness and service life of the mat. Cleaning intervals, tools and agents used will vary depending on the type and intensity of the soiling.

The length of care and cleaning intervals should be adapted in line with how often people walk across the mat and the loads it is required to withstand. It is also important to consider the time of year: the snow and de-icing salt that the mat is exposed to during the winter months require shorter cleaning intervals, particularly in areas with heavy loads. For this reason, we recommend cleaning the mats daily. In heavily frequented entrance areas, emco dirt collection wells with drainage systems are a must (these are used with emco MARSCHALL and PLAZA entrance mats).

### General cleaning:



Fig. 1: Daily general cleaning

A powerful brush vacuum cleaner should be used for daily cleaning of emco entrance mats with ribbed carpet inserts. The brushing action during vacuuming makes the fibres stand up again and allows the dirt to be sucked out of the gaps in the ribbed carpet insert. (1)

### Thorough cleaning:



Fig. 2: Weekly intermediate cleaning

After vacuuming, the emco entrance mats should be rolled up and the mat well swept clean with a broom or vacuumed. (2)

### Intermediate cleaning:



Fig. 3: Monthly thorough cleaning

After vacuuming and cleaning the mat well, the mat can be hosed down with a high-pressure cleaner. After being stood up to dry for a short period, the mat can be returned to service. Cleaning using a standard industrial cleaning machine is also possible. (3)



Our service employees work on site to ensure that emco entrance mats are cleaned correctly and replace ribbed carpet inserts when necessary – using a quick, fuss-free process.

This service is not available in the UK.

#### emco cleaning service:



Fig. 1: Annual special emco cleaning service

Our special cleaning vehicle is a world first and enables us to clean your emco entrance mats thoroughly as well as pre-dry them – directly on site! We don't even need a water or power supply – and what's more, we ensure that the dirty water is disposed of using an environmentally friendly method. (1) (not available in the UK)

#### Ribbed carpet replacement by our emco service team:



Fig. 2: Every 3 years: ribbed carpet replacement by our emco service team

Particularly in entrance areas, it is not always possible to avoid damage altogether – whether this is caused by cigarette burns, chewing gum, or even oil stains. Moreover, anything that is trodden on hundreds of thousands of times will inevitably need to be replaced. This is where emco's ribbed carpet replacement service, which can increase the cost effectiveness of entrance mats several times over, comes in. The metal chassis is retained: only the ribbed carpet strips are replaced in a systematic way. Equipped with a mobile ribbed carpet replacement machine, our service team is constantly on hand so that your ribbed carpet can be replaced. (2)

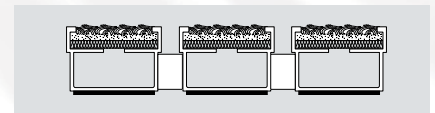


Fig. 3: Hardly any cleaning effectiveness remains

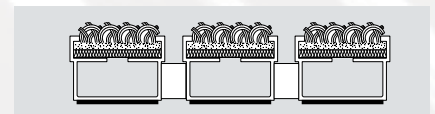


Fig. 4: Full cleaning effectiveness with new ribbed carpet inserts

Extremely worn ribbed carpet inserts should be replaced at specified intervals or if they are exceptionally heavily soiled. (3+4)

### If supplied with a frame:

Please state the outer dimensions of the frame.

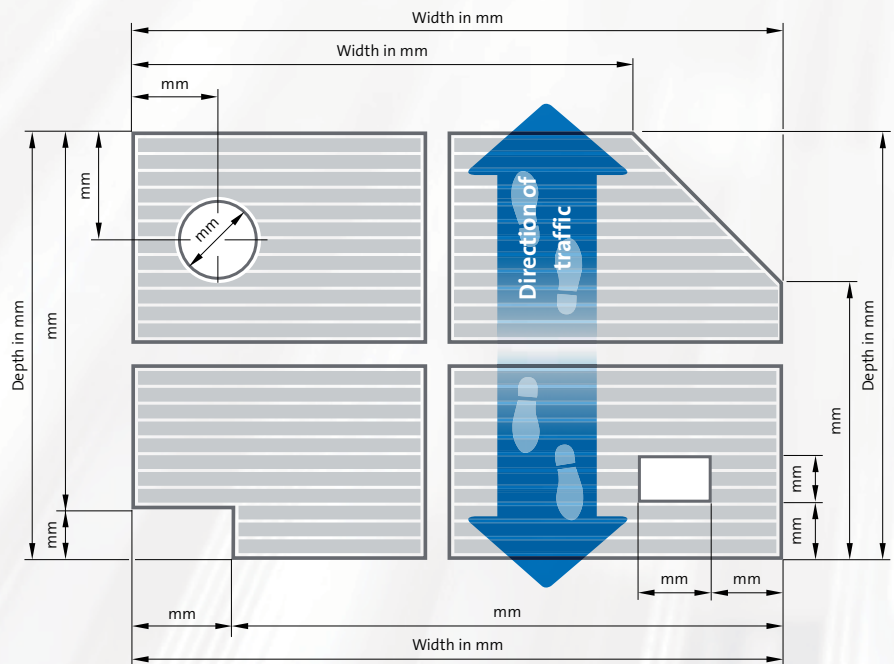
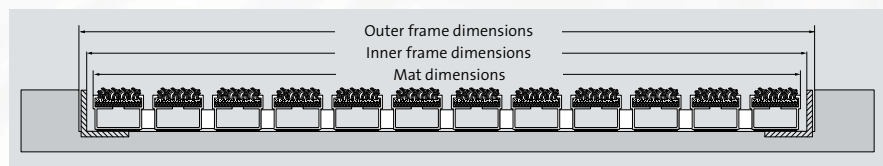
### If the frame is fitted:

Please state the inner dimensions of the frame.

### For special shapes:

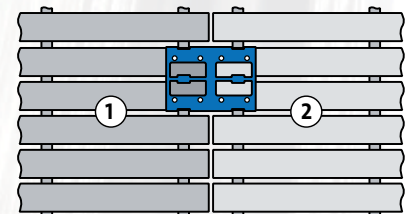
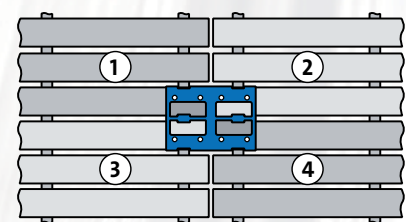
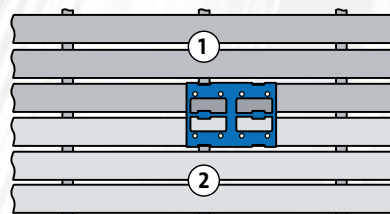
Please contact our Service Department, who will be happy to give you the benefit of their technical expertise (e.g. using a laser measurement device).

This service is not available in the UK



### emco mat joining brackets for joining individual mat sections:

emco mat joining brackets made from stainless steel for easy connection of larger, divided entrance mats and precise section assembly. The joining brackets are supplied free of charge with every order (available for all types except GS 517 and PLAZA).



### During planning, please note:

The entrance mat profiles should run at right angles to the direction of traffic.

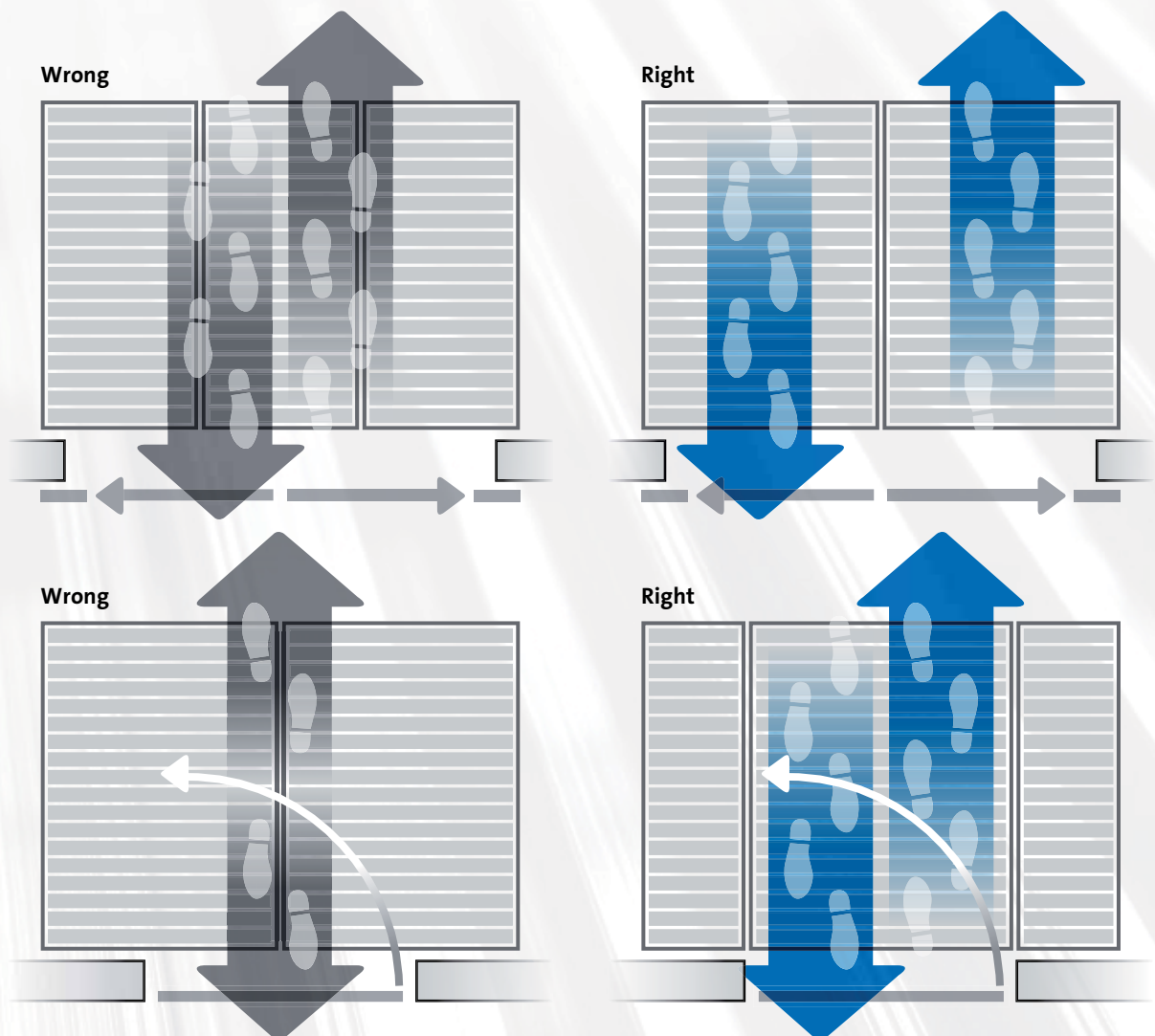


**Mat combinations as per factory standards:**

For situations where mats need to be divided: as a general rule, emco entrance mats are supplied in a single piece wherever possible.

Type	Max. width (mm)*	Max. walking depth for each individual section (mm)*	Maximum mat weight (kg)
<b>DIPLOMAT</b>	3000	3000	45
<b>DIPLOMAT 510</b>	2200	1500	25
<b>MARSCHALL</b>	3000	3000	45
<b>PLAZA</b>	2800	1000	45
<b>GS 517</b>	2000	1000	45
<b>KADETT 515</b>	2600	1500	30

\*These values relate to the specified maximum mat weight



## Pricing

### Standard designs:

In the case of mats and frames that have a straightforward rectangular or square shape (90° corners), the area is determined by multiplying the width by the length. The list price that applies in each case is then used as the basis for pricing.

### Special solutions:

#### Basis for pricing

a) Mats with areas of less than 2 m<sup>2</sup>:

The full rectangular area is used as the basis for pricing.

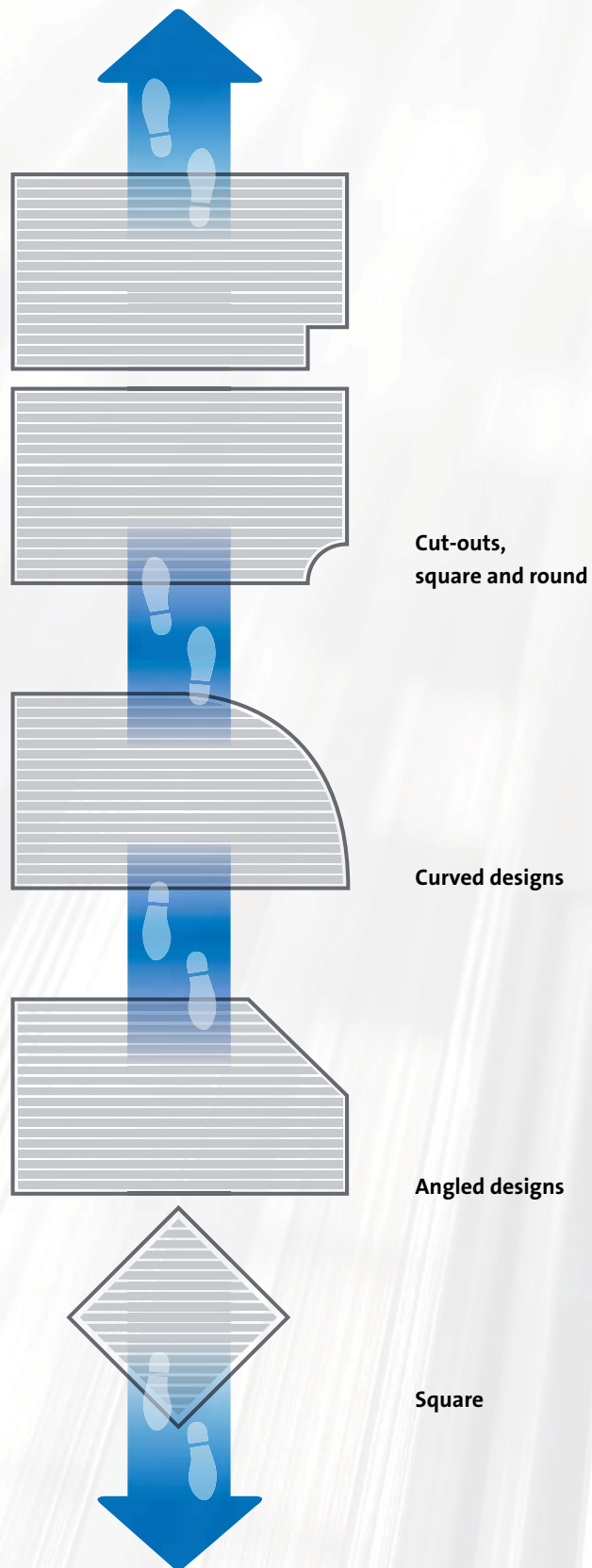
b) Mats with areas of more than 2 m<sup>2</sup>:

The actual dimensions of the mat are used as the basis for pricing.

Cut-outs – for doorstops for example – are factored into the area calculation.

#### Surcharges for special services/shapes:

For types DIPLOMAT 522, MARSCHALL 522 S, PLAZA 542 S and GS 517, the following applies: Surcharges are levied for cut-outs (round/square), as well as curved and angled designs. Please refer to our separate price list for the most up-to-date information on surcharges.





	DIPLOMAT 510	DIPLOMAT 517	DIPLOMAT 522	DIPLOMAT 527	SENATOR 522 W	SENATOR 522 WS	Suitability for wheeled traffic
Type of installation	Stationary load kg/100 cm <sup>2</sup>	Stationary load kg/100 cm <sup>2</sup>	Stationary load kg/100 cm <sup>2</sup>	Stationary load kg/100 cm <sup>2</sup>	Stationary load kg/100 cm <sup>2</sup>	Stationary load kg/100 cm <sup>2</sup>	Shopping trolleys, wheelchairs, hand trolleys (caution with GB, GK, GCB, CB!)*
Fully supported	1500	2100	2100	2100	2100	3500	

	MARSCHALL 517S		MARSCHALL 522S		PLAZA 542S	
Type of installation	Stationary load kg/100 cm <sup>2</sup>	Suitability for wheeled traffic	Stationary load kg/100 cm <sup>2</sup>	Suitability for wheeled traffic	Stationary load kg/100 cm <sup>2</sup>	Suitability for wheeled traffic
Fully supported	3400	Shopping trolleys, wheelchairs and hand trolleys	3800	Shopping trolleys, wheelchairs, hand trolleys, cars and pallet trucks	4500	Shopping trolleys, wheelchairs, hand trol- leys, pallet trucks, cars, HGVs (up to 7.5 t)
<b>Self-supporting**</b> with substructure	150		300		830	Shopping trolleys, wheelchairs, hand trolleys, cars and pallet trucks
<b>Extent of sup- port</b> with substructure	With grid support		With grid support		Without grid support	
<b>250 mm</b> with substructure	400		665		1070	
<b>300 mm</b> with substructure	355		615		830	
<b>350 mm</b> with substructure	310		575		640	
<b>400 mm</b> with substructure	280		535		460	
<b>450 mm</b> with substructure	250		490		408	
<b>500 mm</b> with substructure	225		435		340	
<b>550 mm</b> with substructure	200		380		265	
<b>600 mm</b> with substructure	165		325		210	
Self-supporting with dirt collec- tion well type 50xx ***	150		300	Shopping trolleys, wheelchairs and hand trolleys	600	Shopping trolleys, wheelchairs, hand trolleys and pallet trucks

\*Versions featuring brush strips, scraper bars and cassette brushes are only suitable for wheeled traffic under certain conditions.  
Please contact us for further information.

\*\*Support clearance: max. 300 mm \*\*\*For technical data, refer to p. 66

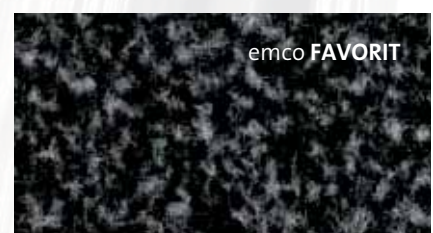
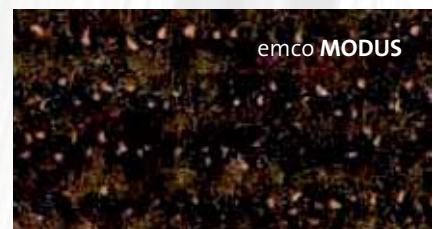
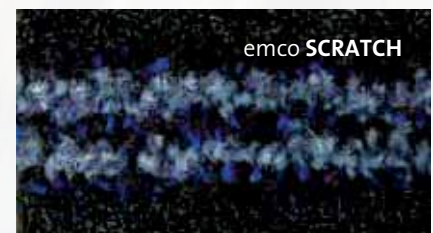
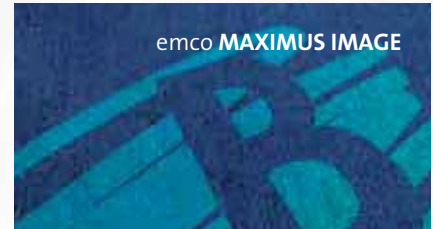
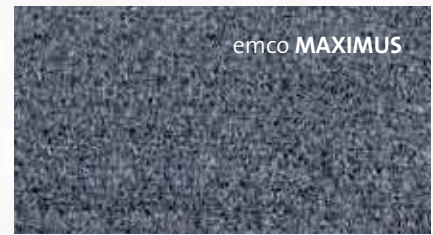
**Important note: Sudden acceleration and turning on the mat should generally be avoided due to the excessive force and/or point loading these cause.**

### Detecting and solving problems

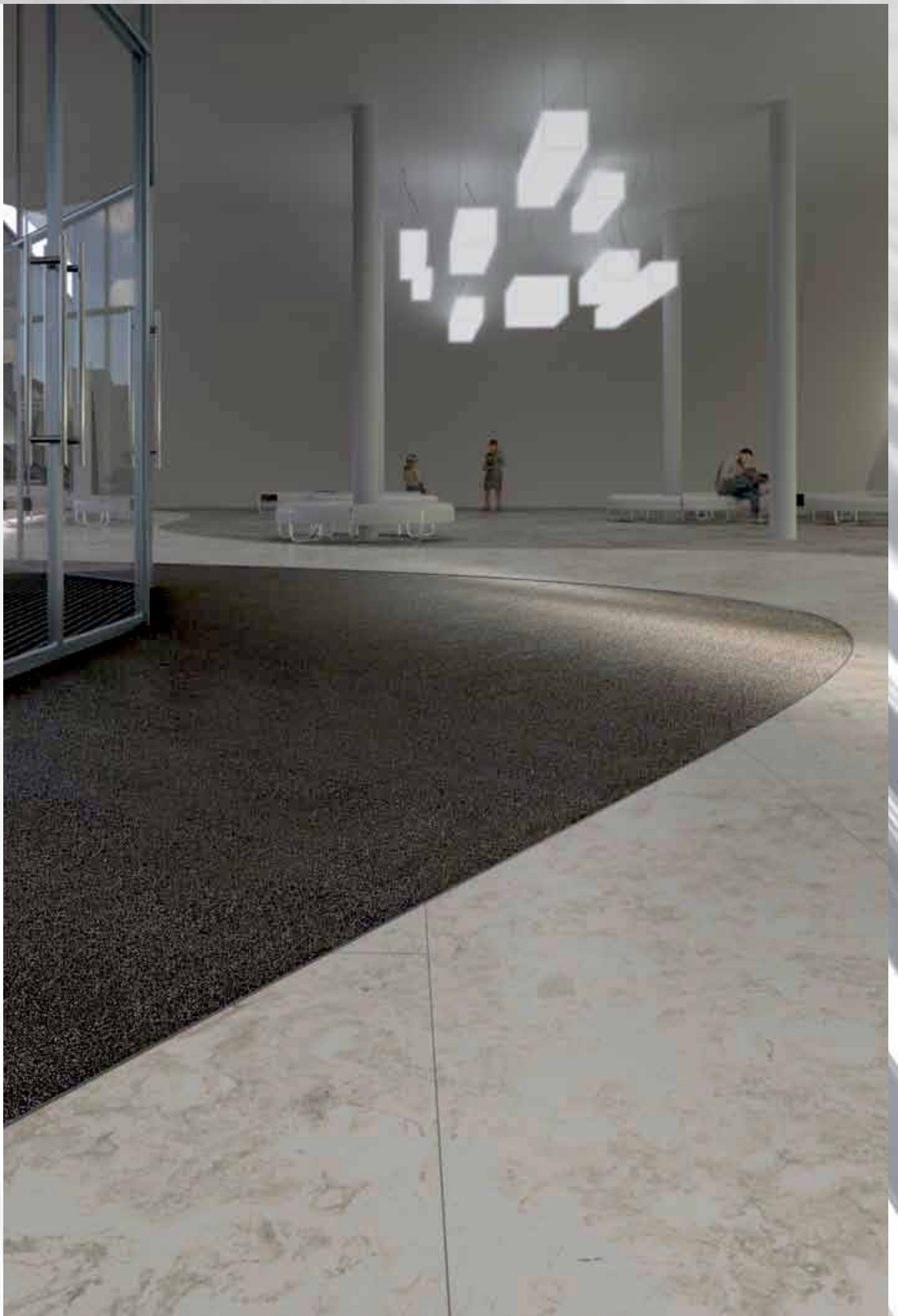
Around 80% of the dirt in a building is tracked in from outside and then is spread across a larger area by internal traffic. For stone coverings, this results in cracks, stains and dulled colours; textile coverings also lose their colour intensity and experience a reduction in the quality of their material. In turn, this leads to premature deterioration of the floor coverings. emco clean-off systems counteract these problems by absorbing a high proportion of the residual and damp dirt right at the entrance area – and, as a result, provides protection for the adjacent floor coverings.

### Improve your image – and know it will stay that way

emco clean-off systems ensure that the first impression you give will be a good one. A well-maintained, clean entrance area in harmonious colours makes a valuable contribution to the positive overall image of business premises or public buildings. The sound-absorbing effect of these systems also creates a relaxing, pleasant atmosphere. In addition to this, emco clean-off systems actively prevent the risk of slippages caused by moisture and dirt in entrance areas – as well as the slips and trips associated with this. Hygiene conditions in heavily frequented areas are significantly improved.









#### emco **advertisements on logo mats**

If you're looking for an opportunity for advertising and image promotion in addition to a cleaning system, emco logo mats are the right choice for you – and a way to enhance your emco entrance matting systems. emco is the only manufacturer in Germany to produce logo mats with individually tailored colours and motifs made from high-quality high twist nylon. The backing material, made

from flexible nitrile rubber, is able to withstand repeated cleaning and washing. Certification to DIN ISO 9001 and the latest machinery ensure a superior level of quality. emco's wide sales network is yet another of the advantages we offer. In Germany alone, around 30 members of our service staff are on hand to dispense advice quickly and ensure deliveries are rapid too.





### emco **swimming pool gratings**

A quality product allowing splash water to drain and featuring a perfectly-sized free cross-section; gentle on the feet and hygienic. emco offers swimming pool grates in rigid or roll-up formats, with either lateral or longitudinal profiles, and with a variety of dimensions and corner solutions available. In addition, the option of radial gratings running at right angles or parallel to the edge of the pool opens up a number of possibilities in terms of design. They are resistant to UV rays, as well as chlorine, sea water and spa water, and boast optimum non-slip properties thanks to their safety profile seal.



### emco **rolling foot grids and linear gratings**

emco creates the freedom to enjoy life more effectively in domestic, commercial and industrial areas, using emco rolling foot grids as load-bearing covers for convectors and air conditioning supply pipes, and rigid linear gratings as grid units for ventilation in furniture construction, doors and windowsills. Available in aluminium, stainless steel or wood, depending on type, emco offers a multitude of profiles with a diverse range of free cross-sections, as well as matching emco installation frames on request. Special designs in any conceivable shape, as well as versions for corner and curved applications, are also available.



# National sales

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Tel. (02505) 947050  
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Fax (+44) 01952 262 940  
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## Fax order form for entrance mats to | Number: +49 (0) 591- 9140-852

Customer address:

Company:

Department:

Street:

Postcode, town/city:

Contact:

Tel.:

Fax:

BV/Kom.:

Based on an offer from:

Building address:

Contact on site:

Tel.:

Date required:



Find the right entrance mat for you:

<http://www.emco-bau.com/de-en/products/entrance-mat-system-product-finder.html>

### emco entrance mats

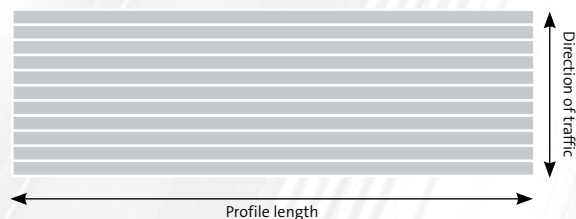
Type	Colour	Quantity	Profile length L/R (mm)	Direction of traffic F/B (mm)

### emco mat frames

Aluminium	Brass	Stainless steel	Profile length L/R (mm)	Direction of traffic F/B (mm)	Height (mm)

### Frames in advance

☐ No ☐ Yes ☐ Outer frame dimensions ☐ Mat dimensions ☐ Inner frame dimensions



Location, date:

Comments:

Signature:



## The company

The Erwin Müller Group based in Lingen, Germany, is a company which, since its founding in 1945, has stood out thanks to its consistent growth, expertise and innovation.

Its wealth of ideas, entrepreneurial skills and social partnership approach with employees form the basis for the company's continuously positive development trends.

An unmistakeable feature of all the products manufactured under the EMCO and NOVUS brand names is the synthesis of practical benefits and exemplary designs.

It is this product quality in terms of both form and function that is helping the company to sustain its global market presence in the new millennium.



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