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# ProfilGate®

## The Innovative Cleaning System



A product of



[www.nsltechnology.com](http://www.nsltechnology.com)

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Quality  
made in  
**GERMANY**

**100**  YEARS OF  
QUALITY



**“Clean production is  
that pre-requisite for  
Industry 4.0.”**

*Christian Löwe, Managing Director, HEUTE Maschinenfabrik*

The digitalization and interconnection of modern manufacturing processes can only develop by strictly avoiding interferences. To reach this objective, one condition is a must: Cleanliness with manufacture, assembly and storage. Here a simple truth applies: Dirt that does not get in sensitive areas at all does not need to be strenuously and cost-intensively removed. Keeping that in mind, quality, reliability and attractiveness of products are automatically improved – let alone the cost reduction of subsequent cleaning processes.

Prevention of bringing in dirt has strongly motivated our company from the very beginning. In addition to our world-wide known shoe-polishing machines, we have been manufacturing innovative sole cleaning machines and tire-washing facilities for decades.

With innovation and permanent further development of our world-wide successful ProfilGate® cleaning system, we consequently continue this tradition.

Our new ProfilGate® **st-Series** is a good example for it: This series is optimized for small rollers with high vehicle frequency as usually encountered with smaller good carriers, route tigger trains and “Automatic Guided Vehicle” (AGV). The latest generation of our **aqua-Series** ensures efficient wet cleaning and disinfection of rollers as well as soles, mainly in the food industry.

Please feel free to contact us in regards to your facility needs!



Christian Löwe,  
Managing Director, HEUTE Maschinenfabrik

# Technical Cleanliness is a Question of Method



No matter if you unload from a dirty delivery truck or take dirt inside your facility via material handling devices – most receiving areas build up dirt, debris and dust from tires and wheels. The next set of transport vehicles takes the dirt further and deeper into your storage and production areas till it causes issues inside your facilities.

**By strategically placing ProfilGate® throughout your building, you can now capture up to 80% of dirt – which is otherwise attached to your wheels, casters and tires – before it migrates and enters your production facility.**



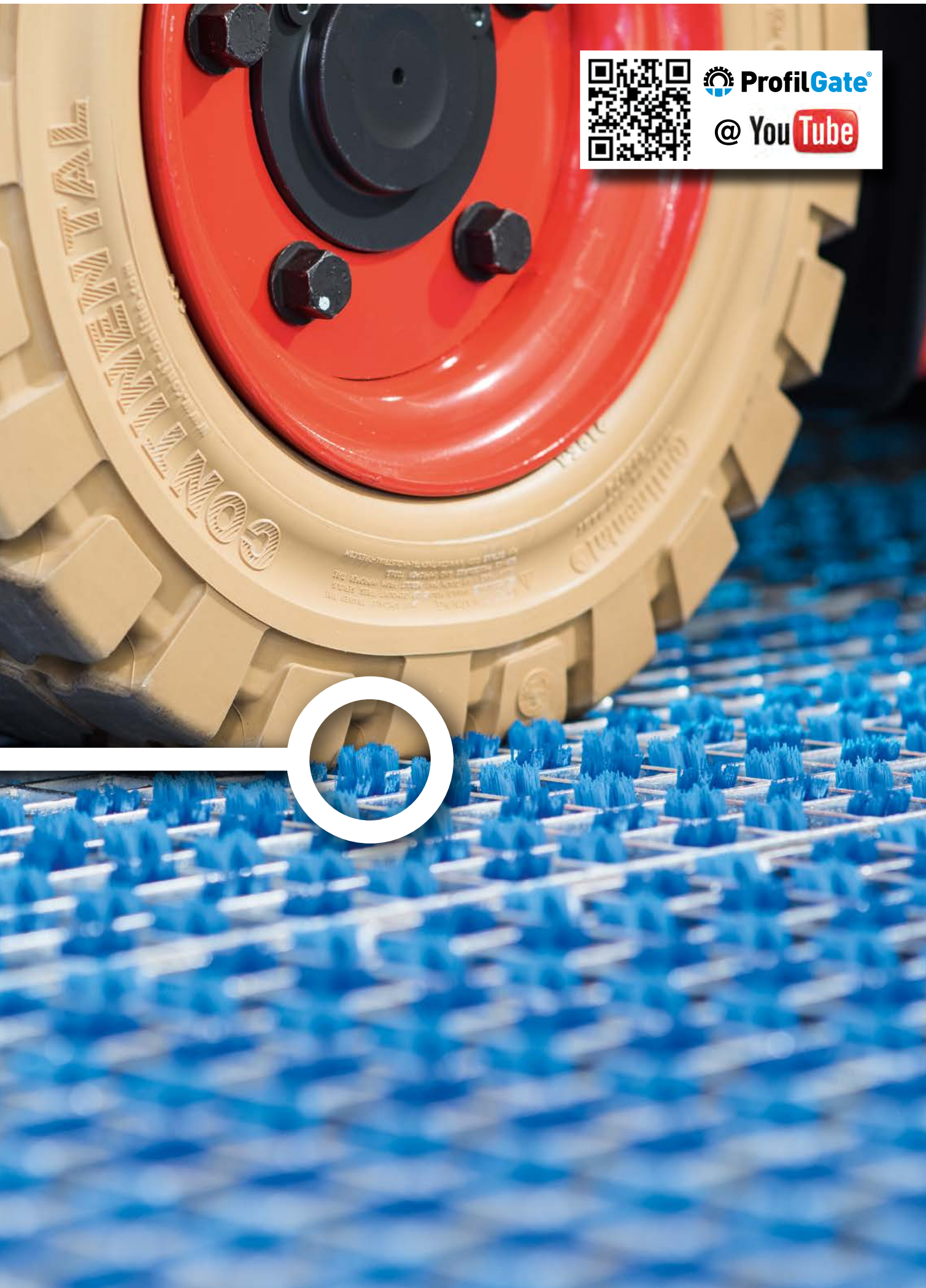
# Finally clean with ProfilGate®

**ProfilGate® is the perfect solution for the reduction of dirt, which is transported into your facility by vehicles or people.**

The innovative system cleans tires, casters and wheels as well as shoe soles, purely mechanically while driving or walking over.

The patented brush strips actively work due to their inherent tension and angled bristle position. ProfilGate® works 24 hours a day without any external energy supply needed.





 **ProfilGate**<sup>®</sup>

@ 

# 6 Good Reasons for ProfilGate®

**Improved cleanliness, better quality and reduced maintenance costs are some of the many advantages of ProfilGate®.**

Your company can demonstrate to its customers, suppliers and legislators that it is willing to improve cleanliness beyond the regulated hygiene and safety requirements.



## 1. Technical cleanliness

In most cases, the improved indoor cleanliness through the use of ProfilGate® is not only visible at the entrance, but as well as deep into production. Your employees, customers, suppliers and official authorities recognize at first glance that you are actively achieving the highest level of technical cleanliness in your company.



## 2. Improved hygiene

The regulations on separation of hygienic areas are permanently tightened up. With ProfilGate® aqua you integrate active cleaning and disinfection in a single step only – for highest hygiene requirements.



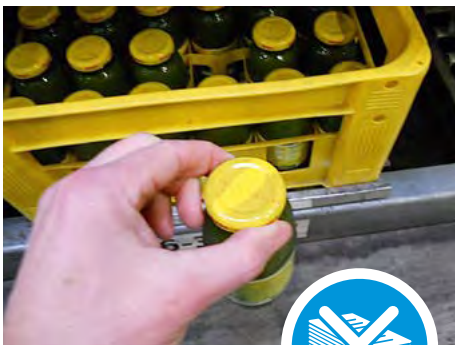
## 3. Improved health and safety for your employees

Reduced dirt will create a better air quality environment while saving filter cost. The cleaner and dryer floors will reduce the risk of accidents, since the slip hazard is minimized. Another major improvement is that forklifts are less likely to spin or slide.



**“Once invested in cleanliness and follow-up costs saved!”**

*Ralf Thiel, Logistics Manager, HAILO*



#### **4. Less customer complaints**

ProfilGate® can prevent contamination of surfaces, which could lead to complaints otherwise. In this way, contamination is avoided within both – production and storage. The results are a stronger image, less breakdowns and less depreciation – so your product and brand quality is improved.










#### **5. Less cleaning cost**

ProfilGate® collects automatically the dirt in every entrance or driving zone. As a result, less debris and dust is transported into the facility. This extends the cleaning cycles by about 40%! More importantly, your sweepers only clean during usage, whereas ProfilGate® cleans all day!



#### **6. Reduced refurbishing cost**

Thanks to the installation of ProfilGate®, you will extend the lifetime of your epoxy coating or industrial resin flooring as the surface gets less scratched. Dirt on tires, wheels and casters acts otherwise like sandpaper. Overall you will notice far less damages throughout facilities that use ProfilGate®.

 Above-ground installation as test field ProfilGate® b55	 Above-ground installation with epoxy-resin ramps ProfilGate® b55	 Driveway + entrance into the clean hall ProfilGate® b65 go ProfilGate® b65	 Entrance to ESD before econductivity test ProfilGate® st55 go	 Driveway to ESD / air curtain ProfilGate® st55	 Continuous cleaning ProfilGate® st55	 Entrance to workshop ProfilGate® st55
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 Integrated into loading docks ProfilGate® st55	 Before/inside Goods Elevator ProfilGate® st55	 Cleaning AGV between logistics and assembly ProfilGate® st65	 For soles and smaller rollers ProfilGate® k55	 Continuous cleaning of AGV in clean zones ProfilGate® st55
 Space-saving under the canopy in front of the entrance to the logistics department ProfilGate® b65				

# Clean Factory



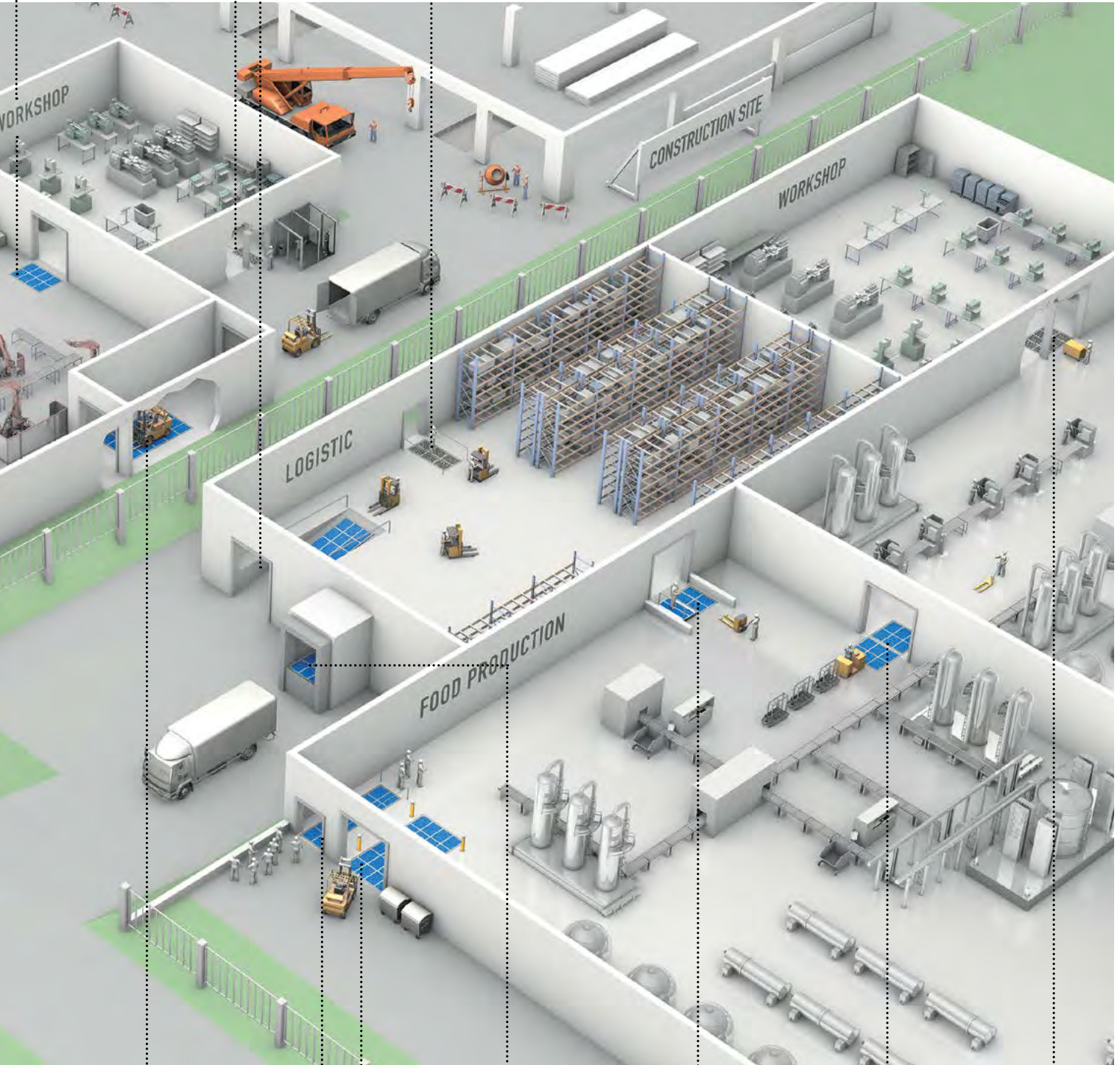
Door to break room  
 ProfilGate® b55 go



Tire cleaning in  
 ramps and driveways  
 ProfilGate® b65



Staff entrance  
 ProfilGate® i55 go



Integrated into  
 the air lock  
 in front of the  
 inner door

ProfilGate® b65



Disinfection  
 behind the door  
 leading to the  
 outdoor area

ProfilGate®  
 i45 aqua



Wet cleaning /  
 disinfection  
 ProfilGate®  
 i55 aqua



Disinfection of rollers  
 next to sole washer  
 ProfilGate® sti45 aqua



Integrated into loading bays (Loadhouse)  
 ProfilGate® st55



Wet cleaning/Disinfection  
 with passage to  
 production shop  
 ProfilGate® sti55 aqua



Entrance/drive way  
 to workshop  
 ProfilGate® sti55 go

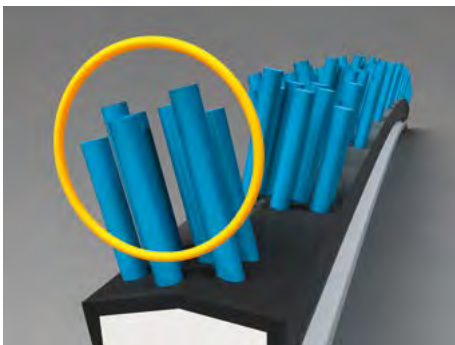
# Rely upon the patented original!

## The difference is in the details.

The patented brush strips are the core of the innovative ProfilGate® system.

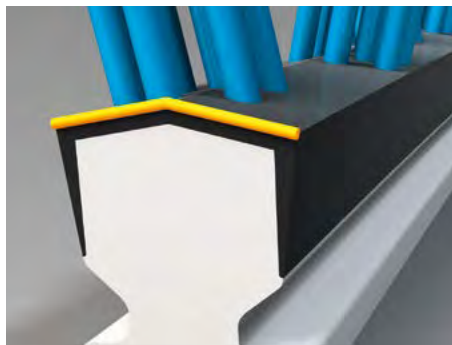
Due to ongoing improvements and further development, the sophisticated brushes guarantee highly efficient cleaning of driving and walking zones.

A large combination of detailed engineered functionalities assures optimum efficient cleaning results, smooth operation and longevity. The sustainable design requires no electricity.



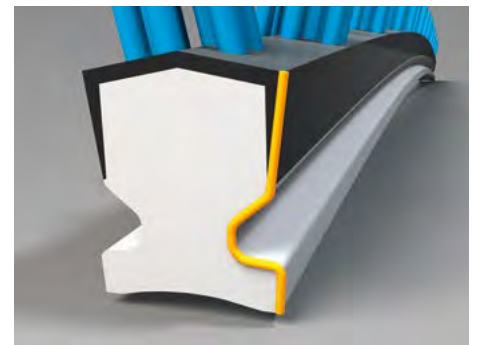
## Bristles

The specially designed and patented angled position of the nylon bristles enables a maximum cleaning effect of wheels and even shoes. It allows for an active, mechanical cleaning by friction as soon as weight acts. The uneven bristle tips get deep into the various profiles going over the system.



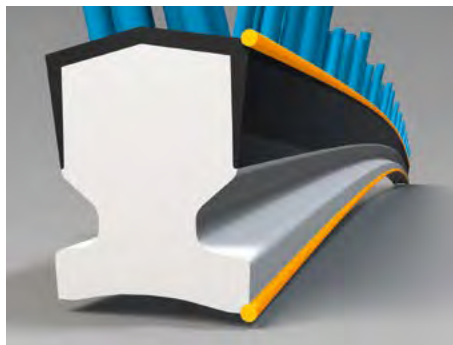
## Roof shape

The slightly angled upper surface of the brush body ensures that dirt particles and fluids end up directly in the tray floor. The narrow brush body allows for dirt particles of up to 8 mm size to easily pass and be collected in the tray below.



## Profile shape

The brush body's tapered design facilitates larger debris to easily pass and fall into the stainless steel tray below. The combination of the pre-stressed strips and the patented brush array automatically leads to an active cleaning while driving or walking.



### Material

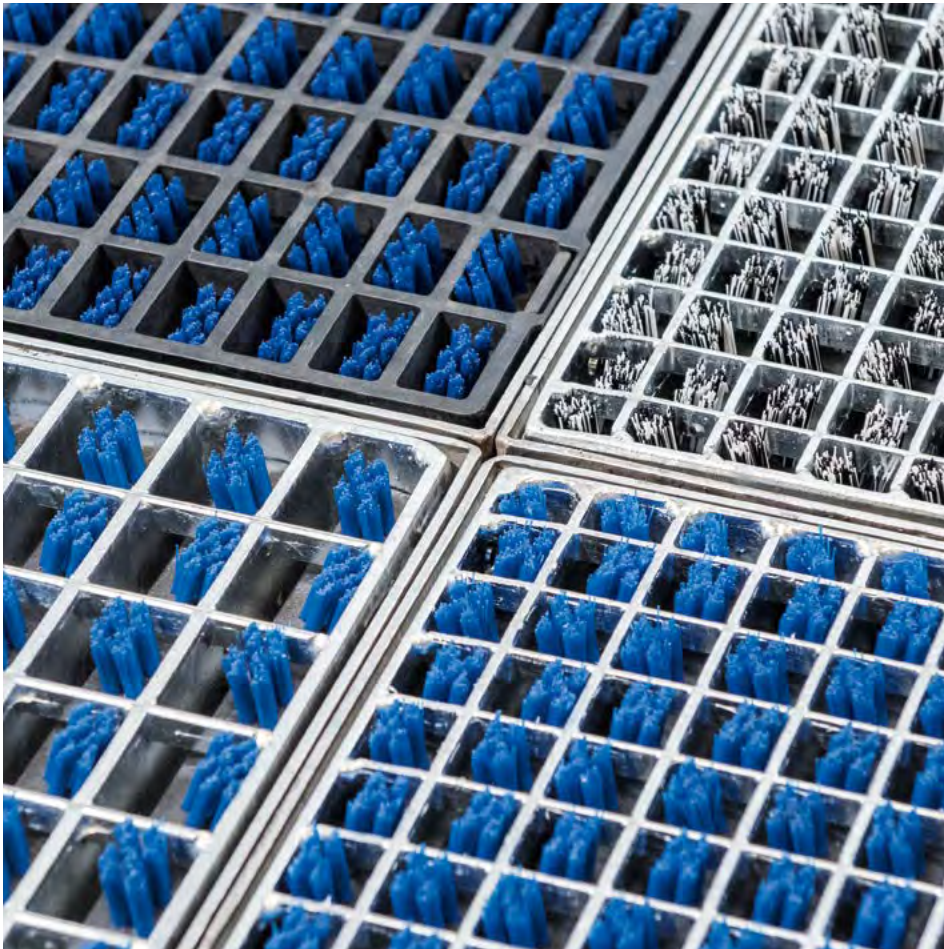
The brush body is co-extruded from hard and soft PVC. A special mix creates constant tension of the strips and makes it suitable for high fluctuating temperatures as for example required in food environments. The covering of the top surface with soft PVC reduces the noise level to a minimum during use.

### Brush strip

The pre-stressed tension of the brush strips allows up to 12 mm downwards movement. When used with tires or shoes, the bristles get down and automatically create vibrations that transport the brushed-off dirt down into the stainless steel collection trays. In addition, the retraction protects the bristles from excessive wear as the majority of weight rests on the grate.



# For each application the appropriate model



## The appropriate model for your demands

To solve the most various problems and cleaning tasks arising in many branches and industries, we have developed specific ProfilGate® models.

The overview contains the suitable ProfilGate® model meeting your requirements.

**ProfilGate® b**  
**ProfilGate® st**

**Dry tire cleaning  
in the industry**

Efficient tire and roller cleaning  
under harshest conditions in production,  
assembly and logistics areas

**Tire / roller cleaning for:**

- ▶ Production
- ▶ Assembly
- ▶ Workshop
- ▶ Warehouse
- ▶ Shipping point

▶ Page 16

**ProfilGate® i**  
**ProfilGate® sti**  
**ProfilGate® k**

**Dry tire cleaning  
for special requirements**

Efficient tire and roller cleaning installations  
completely made of stainless steel or food-  
safe, glass-fibre reinforced synthetic material.

**Tire / roller cleaning for:**

- ▶ Beverages industry
- ▶ Food industry
- ▶ Chemical companies
- ▶ Pharmaceutical companies

▶ Page 18

**ProfilGate® i aqua**  
**ProfilGate® sti aqua**

**Wet cleaning and disinfection**

Hygienic wet cleaning and disinfection of  
tires, rollers and soles.

**Tire / roller cleaning for:**

- ▶ Food industry, f. ex.
  - dairies
  - sweets industry
  - meat products industry
- ▶ Chemical companies
- ▶ Pharmaceutical companies

▶ Page 20

**ProfilGate® b go**  
**ProfilGate® st go**

**Dry sole cleaning  
in the industry**

Efficient sole cleaning under harshest  
conditions in production,  
assembly and logistics areas.

**Sole cleaning for:**

- ▶ Production
- ▶ Assembly
- ▶ Workshop
- ▶ Warehouse
- ▶ Shipping point

▶ Page 22

**ProfilGate® i go**  
**ProfilGate® sti go**

**Dry sole cleaning  
for special requirements**

Efficient sole cleaning – completely made of  
stainless steel.

**Sole cleaning for:**

- ▶ Food industry, f. ex.
  - dairies
  - sweets industry
  - meat products industry
- ▶ Chemical companies
- ▶ Pharmaceutical companies

▶ Page 24

ProfilGate® b  
ProfilGate® st

# Dry tire cleaning in the industry

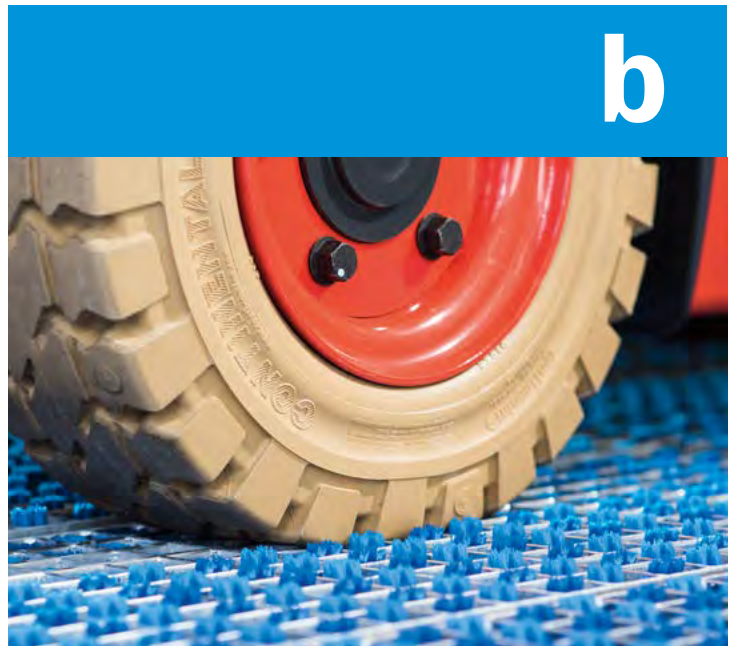
## Efficient tire and roller cleaning under harshest conditions in production, assembly and logistics areas.

The long-lasting, galvanised grates of the ProfilGate® b and st Series represent the standard solution for applications in the producing industries. The various models cover all the typical fields of application, i.e. the entire bandwidth of vehicles and wheel sizes, outdoor driveways and indoor areas as well as the usually encountered dirt types.

The integration of ProfilGate® in loading bridges and load lifts is a space-saving and efficient solution.

### Tire / roller cleaning for:

- ▶ Production
- ▶ Assembly
- ▶ Workshop
- ▶ Warehouse
- ▶ Shipping point



## ProfilGate® b Series – for tire cleaning under harshest conditions in the industry.

Ideal for driveways from outdoor due to the high dirt absorbing volume and wide-mesh grates. Especially suitable for the cleaning of wide tires, rollers and wheels with high axle loads and load-carrying capacities.



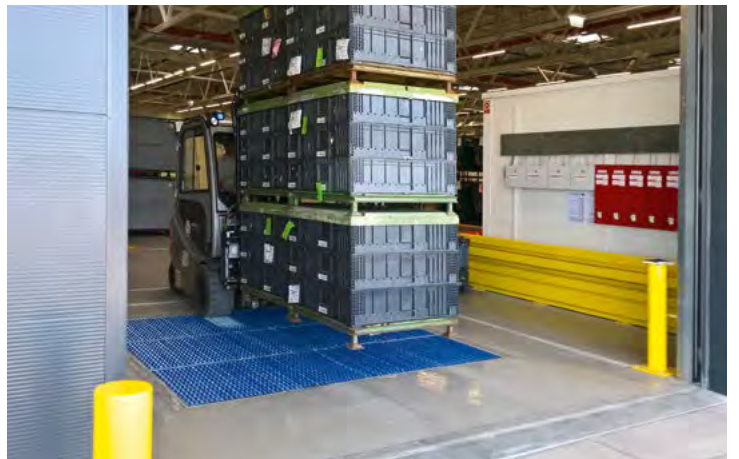
### ProfilGate® b65

- ▶ 20 mm Dirt-collecting container
- ▶ For > 100 passages per day



### ProfilGate® b55

- ▶ 10 mm Dirt-collecting container
- ▶ For < 100 passages per day



ProfilGate® b65 in operation

**ProfilGate® Series st – specialized for the cleaning of narrow rollers.**

Owing to the fine-mesh structure of the grates, these models are particularly suitable for route tigger trains, carts, trolleys and AGV. Ideal for all indoor areas due to smooth-run, even grate surface, also with narrow, hard rollers.



Mesh-size comparison between the series b and st



**ProfilGate® st65**

- ▶ 20 mm Dirt-collecting container
- ▶ For > 100 passages per day

**ProfilGate® st55**

- ▶ 10 mm Dirt-collecting container
- ▶ For < 100 passages per day



ProfilGate® i  
ProfilGate® sti  
ProfilGate® k

## Dry tire cleaning for special requirements

**Efficient tire and roller cleaning installations completely made of stainless steel or food-safe, glass-fibre reinforced synthetic material.**

For highly demanding applications, there are the ProfilGate® Series i and sti available, completely made of stainless steel, as well as the ProfilGate® Series k equipped with light-weight grates made from synthetic material. In branches with high hygiene standards or aggressive media, there is no alternative but the design made of stainless steel.

As for smaller fields in indoor areas, the food-safe k series with its light-weight maintenance-friendly grates made of synthetic material is once again a good solution. Its narrow meshes impart the k-grate a special, low-vibration effect. Thus, the k-grates are suited for sensitive parts, e.g. in the electronics industry.

### Tire / roller cleaning for:

- ▶ Beverages industry
- ▶ Food industry
- ▶ Chemical companies
- ▶ Pharmaceutical companies



**ProfilGate® i Series – completely made of stainless steel for bigger wheels.**

Ideal for driveways from outdoor due to the high dirt absorbing volume and wide-mesh grates. Especially suitable for the cleaning of wide tires, rollers and wheels with high axle loads and load-carrying capacities.



### ProfilGate® i55

- ▶ Completely made of **stainless steel**
- ▶ Wide meshes for bigger wheels
- ▶ For **< 100** passages per day





# sti



**ProfilGate® sti Series – completely made of stainless steel for small rollers.**

Due to the fine-mesh grates, these models are particularly suitable for carts, trolleys and AGV. Ideal for all the indoor areas owing to long-lasting, even and easily cleanable grate surfaces.



## ProfilGate® sti55

- ▶ Completely made of **stainless steel**
- ▶ Fine meshes for narrow rollers
- ▶ For **< 100** passages per day



# k



**ProfilGate® k Series – food-safe and light-weight grates**

The fine-mesh and absolutely even grate of synthetic material enables low-vibration passing-over. The synthetic material of the grates is bactericidal and approved for food contact.



## ProfilGate® k55

- ▶ Grates made from bactericidal synthetic material
- ▶ Fine meshes for narrow rollers
- ▶ For **< 200** passages per day



ProfilGate® i aqua  
ProfilGate® sti aqua



# Wet cleaning and disinfection

## Hygienic wet cleaning and disinfection of tires, rollers and soles.

The ProfilGate® Series i aqua and sti aqua have been designed for wet cleaning and optimum disinfection through liquid-filled trays. The filling level in the stainless-steel trays is controlled by a standpipe valve, which can be matched on demand by adding cleaning or disinfecting agents. The capillary effect of the bristles conveys the medium to the treads of the wheels and soles to be cleaned. In this way, stringent demands for cleanliness and hygiene (e.g. IFS and BRC) can be fulfilled as well.

### The advantages at one glance:

- ✓ Active cleaning and disinfection
- ✓ For highest hygiene requirements
- ✓ Significant reduction of spreading of germs
- ✓ Outstandingly suitable for driveways and entrances into sensible areas
- ✓ Energy-less lock function
- ✓ Ensuring faster flow of persons and material

### Tire / roller cleaning for:

- ▶ Food industry, e.g.
  - dairies
  - sweets industry
  - meat products industry
- ▶ Chemical companies
- ▶ Pharmaceutical companies



Detailed information on ProfilGate® aqua you find in our separate catalogue.

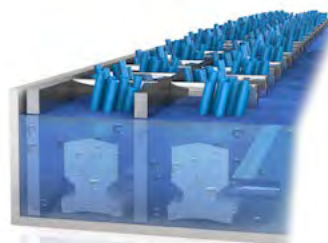


## i aqua



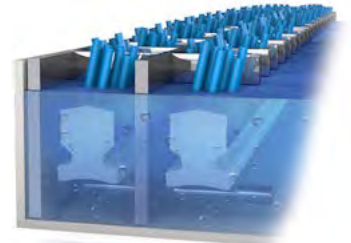
### ProfilGate® i aqua Series - Wet cleaning and disinfection for bigger wheels.

The wide-mesh stainless steel grate is ideal for driveways, which are driven on with broad rollers such as the ones of pallet jacks.



### ProfilGate® i45 aqua

- ▶ Completely made of **stainless steel**
- ▶ Wide meshes for bigger wheels
- ▶ For **< 100** passages per day



### ProfilGate® i55 aqua

- ▶ Completely made of **stainless steel**
- ▶ Wide meshes for bigger wheels
- ▶ For **> 100** passages per day





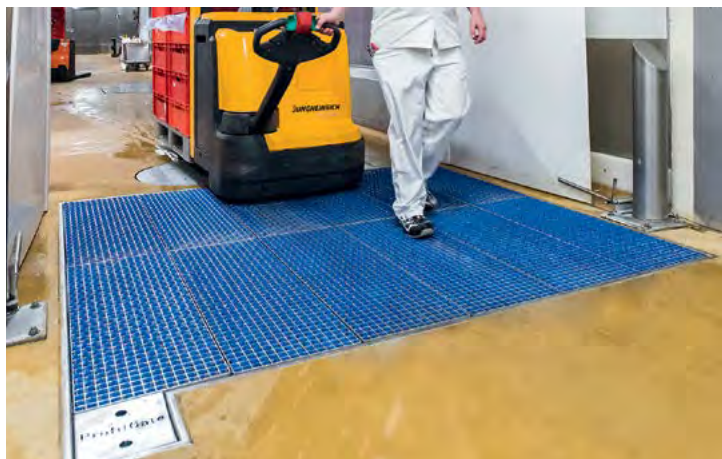
# sti aqua



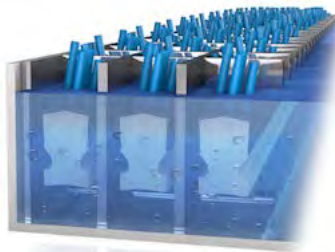
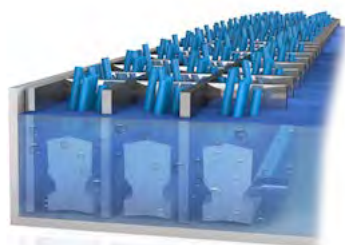
The drain can be positioned as desired.

## ProfilGate® sti aqua Series – Wet cleaning and disinfection for narrow rollers.

The fine-mesh, special-steel grates enable low-vibration passage of industrial trucks with narrow rollers. They are perfectly suited for carts such as smoking and cooking ones as well as trolleys.



ProfilGate® sti aqua in wet areas



### ProfilGate® sti45 aqua

- ▶ Completely made of **stainless steel**
- ▶ Fine meshes for narrow rollers
- ▶ For **<100** passages per day



### ProfilGate® sti55 aqua

- ▶ Completely made of **stainless steel**
- ▶ Fine meshes for narrow rollers
- ▶ For **>100** passages per day



ProfilGate® i aqua in production areas

ProfilGate® b go  
ProfilGate® st go

# Dry sole cleaning in the industry

**Efficient sole cleaning under harshest conditions in production, assembly and logistics areas.**

The long-lasting, galvanised grates of the ProfilGate® b go and st go Series ensure optimum cleaning of coarse-profile soles by means of their extended bristles. The active sole cleaning by simply walking over the brush field reduces the ingress of dirt by passing persons! A so-called forced guidance makes sense in many applications, where the by-passing of the cleaning field is to be impeded. All the b go und st go models are prepared for above-ground installation with ramps.

## Sole cleaning for:

- ▶ Production
- ▶ Assembly
- ▶ Workshop
- ▶ Warehouse
- ▶ Shipping point



**b go**



**ProfilGate® b go Series – for dry sole cleaning at entrances from outside.**

Ideal for facility entrances from outside due to the high dirt absorbing volume and wide-mesh grates. Especially suitable for the cleaning of coarsely profiled soles.



**ProfilGate® b65 go**

- ▶ 20 mm Dirt-collecting container
- ▶ For highly frequented entrance zones



**ProfilGate® b55 go**

- ▶ 10 mm Dirt-collecting container
- ▶ For less frequented entrance zones



st go



**ProfilGate® st go Series – for dry sole cleaning in indoor areas.**

Due to the fine-mesh structure of the grates, this series is particularly suitable for carts and trolleys as well. Ideal for all indoor areas due to smooth-run, even grate surface, also with narrow, hard rollers.



**ProfilGate® st65 go**

- ▶ 20 mm Dirt-collecting container
- ▶ For highly frequented entrance zones



**ProfilGate® st55 go**

- ▶ 10 mm Dirt-collecting container
- ▶ For less frequented entrance zones



ProfilGate® st65 go built in a changing-cloth lock



Cleaning of soles and rollers by ProfilGate® st55 go in front of the ESD-area



ProfilGate® b55 go Above-ground version with ramps

ProfilGate® i go  
ProfilGate® sti go

## Dry sole cleaning for special requirements

### Efficient sole cleaning – completely made of stainless steel.

The impervious stainless-steel grates of the ProfilGate i go und sti go Series are perfect for high demands on hygiene and resistance against aggressive media.

In addition, they are the first choice for those areas, which aggressive agents are used in.

The extended bristles of the brushes of the go models ensure intensive cleaning of coarsely profiled soles.



i go



### ProfilGate® i go Series – completely made of stainless steel for sole cleaning.

Ideal for entrances from outside areas due to the high dirt absorbing volume and wide-mesh, stainless-steel grates. Especially suitable for coarse contaminations.



### ProfilGate® i55 go

- ▶ Completely made of **stainless steel**
- ▶ Wide meshes for entrances from outside areas

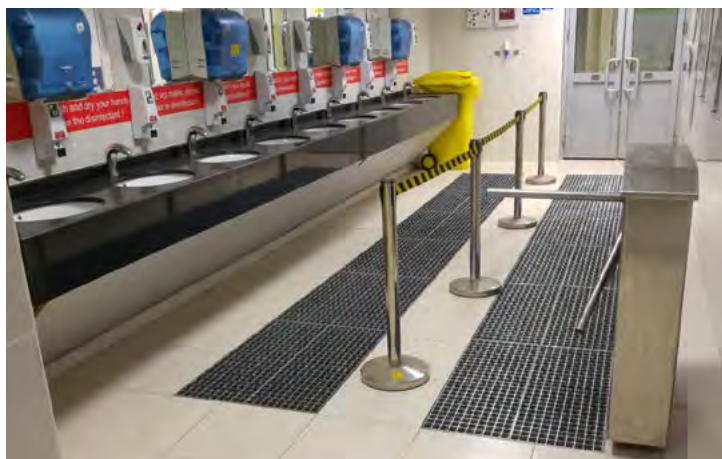


### Sole cleaning for:

- ▶ Food industry, f. ex.
  - dairies
  - sweets industry
  - meat products industry
- ▶ Chemical companies
- ▶ Pharmaceutical companies



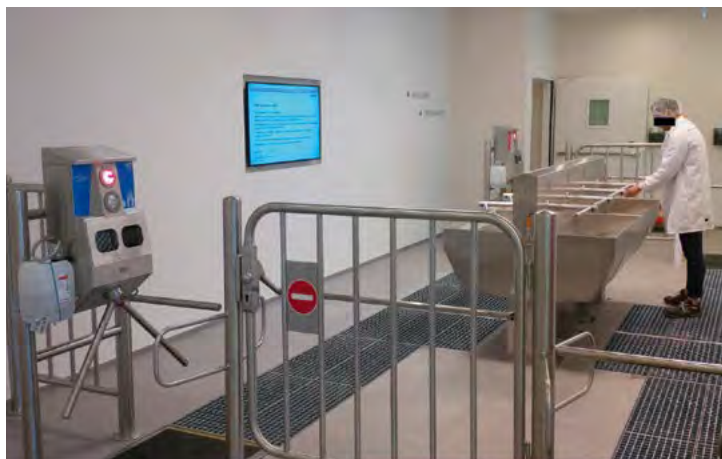
**sti go**



ProfilGate® go installed in cloak room

**ProfilGate® sti go Series – completely made of stainless steel for soles and narrow rollers.**

Due to the fine-mesh, stainless-steel grates, the modules are not only suitable for soles but also for carts and trolleys. Owing to the absorbing capacity of finer dirt particles, the units are ideal for entrances within the premises.



ProfilGate® go as part of a hygiene lock



**ProfilGate® sti55 go**

- ▶ Completely made of **stainless steel**
- ▶ Fine meshes for entrances of indoor areas



ProfilGate® go in front of the production-area entrance

# Low maintenance, easy to clean & certified!



**Practically, the ProfilGate® System is practically free of maintenance. Once installed, it works for you 24 hours / 7 days. There are no running energy costs. The field is recommended to be emptied and cleaned in intervals of several weeks only.**

By exchanging the segments with each other, the durability in practice can be increased to up to 500,000 crossings. Then simply replace the brush strips and get the full cleaning effect.



## Easily removable grate

The ProfilGate®-Lifter enables fast and back-friendly removing of the grates for cleaning – by just a single person! In this way, personnel costs are saved and the anyway low maintenance expenditure gets further reduced.



## Fast cleaning

The dirt collected under the grate segments can be quickly disposed by vacuum cleaner or shovel from the stainless-steel trays.



## Food safety

Our high-quality ProfilGate® bristles are in compliance with the FDA, which regulates the contact of plastic materials with food.

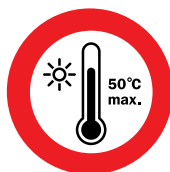
Our ProfilGate® cleaning system is HACCP compliant.





**„The system is absolutely effective and we all got immediately convinced.“**

*Gustavo Porro Martinez, Technical Project Manager, ContiTech*



### Classifications

Our ProfilGate® models were tested in compliance with the above-mentioned standards and finally classified as anti-skid, appropriate-for-use and flame-resistant floor covers.

### Aptitude and limits

The driving-over speed of 6 km/h (4 mph) must not be exceeded. ProfilGate® is designed for a maximum ambient temperature of 50 °C (122 °F). On option, a heat-resistant version up to 80 °C (176 °F) is deliverable.

### How to determine the optimum and best length for your installation

Extensive tests from independent institutions have shown that the most effective length for a ProfilGate® installation requires 3 full tire rotations. For an additional thorough cleaning effect, the length can be extended to reach 4 or 5 rotations (for more details see page 29).



# Certified and approved Efficiency

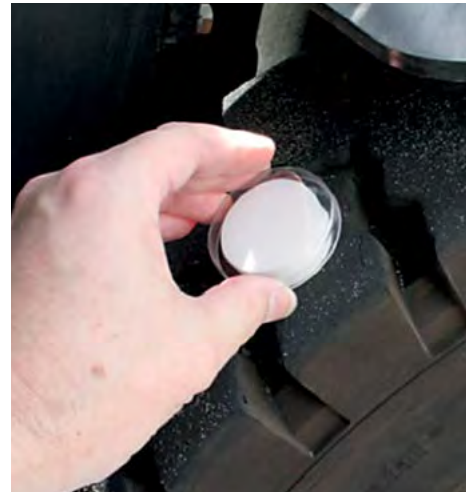


Test preparation with Fraunhofer IPA

## The effectiveness of ProfilGate® has been scientifically analyzed by the Fraunhofer IPA Institute and Laboratory IBELIN®!

Even though our customers confirm the excellent cleaning results of the ProfilGate® system regularly, we wanted to attest these observations by an objective and scientific analysis. In order to do this, we cooperated with the Fraunhofer IPA Institute and created an adequate test setup. During the tests, shoe-soles, as well as smaller wheels and larger tires have been cleaned, by just regularly passing the ProfilGate® system. The attached dirt particles have been captured before and after passing the field. Thereafter the probes were analyzed by quantity and also quality, using an electron microscope scanner (Model PSEMexplorer). Please find detailed information about the excellent results on the next page.

The efficacy of ProfilGate® aqua our cleaning fields for wet cleaning and disinfection has also been scientifically confirmed. The IBELIN® laboratory carried out the test in cooperation with the University of Bonn. The test area was an approx. two-metre-long cleaning field ProfilGate® aqua, which was filled with a two-percent disinfectant. The selected test organisms were Escherichia coli (rod bacteria which behave similar to Salmonella), Enterococcus faecium (bacteria with high environmental resistance similar to Listeria) and Aspergillus niger (mould). Before and after driving over the cleaning field, contact and swab samples were taken from the polyamide rollers of a trolley. The single passing over the ProfilGate® aqua field led to a reduction of the microbiological load by the bacteria by approx. 99%. The load by the mould spores was reduced by approx. 90%. Please find the results on the next page.



Contact sample before and after the cleaning field

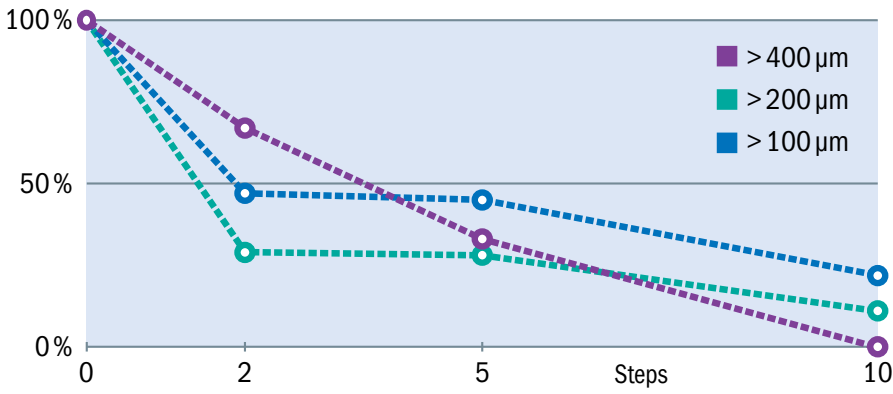


Passing over the ProfilGate® aqua cleaning field



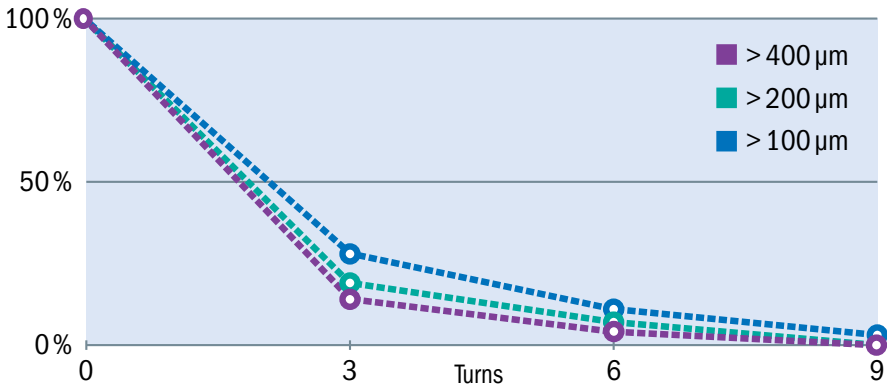
Swab sample before and after the wet cleaning field

## Trockenreinigung



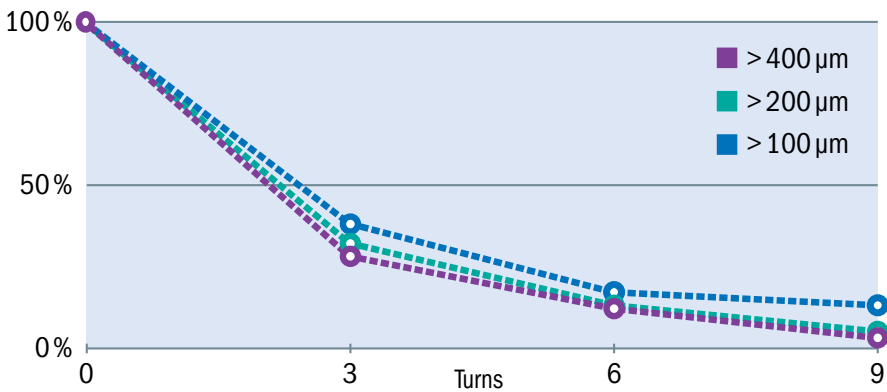
### Fraunhofer IPA test results for shoe-soles

Only a few steps on the ProfilGate® system are enough to brush off more than 60% of the adhering dirt.



### Fraunhofer IPA test results for smaller wheels

Just after 3 rotations on the field, the brushes have taken off up to 80% of the adhering dirt from the wheels.



### Fraunhofer IPA test results for forklift truck tires

For a sound cleaning of forklift-tires we recommend at least 3 rotations.



## Wet cleaning

		Rollers after application mo + drying	Soles after application mo + drying	Rollers after driving over the fields	Soles after passing over the fields	Reduction
E. coli	RODAC - plate	Lawn/25 cm <sup>2</sup>		141 cfu/25 cm <sup>2</sup>		Significant reduction
	Swab	ca. 10 <sup>5</sup> cfu/ml *	ca. 10 <sup>5</sup> cfu/ml *	ca. 10 <sup>3</sup> cfu/ml *	ca. 10 <sup>3</sup> cfu/ml *	2log <sub>10</sub> -Steps = 99 %
Enterococcus faecium	RODAC - plate	Lawn/25 cm <sup>2</sup>	Lawn/25 cm <sup>2</sup>	46 cfu/25 cm <sup>2</sup>	60 cfu/25 cm <sup>2</sup>	Significant reduction
	Swab	ca. 10 <sup>5</sup> cfu/ml *	ca. 10 <sup>5</sup> cfu/ml *	ca. 10 <sup>4</sup> cfu/ml *	ca. 10 <sup>3</sup> cfu/ml *	2log <sub>10</sub> -Steps = 99 %
Aspergillus niger	Swab	ca. 10 <sup>4</sup> cfu/ml *	Not tested	ca. 10 <sup>3</sup> cfu/ml *	Not tested	1log <sub>10</sub> -Steps = 90 %

Lawn: Proliferation of nutrient agar surface by microorganisms (mo) (more than 1000 germs per plate)  
cfu: colony forming units

\* ca.: This is a semi-quantitative method.

Model Line	b65	b55	st65	st55	i55	sti55	k55
Tray height (mm)	65	55	65	55	55	55	55
Extra dirt / water container (mm)	+20	+10	+20	+10	+10	+10	+10
Optimum for							
Maximum admissible vehicle weight (t)	40	30	40	30	20	20	2.5
Suitable for hard rollers			●	●		●	●
Appropriate roller width (mm)	≥31	≥31	≥24	≥24	≥31	≥24	≥20
Suitable for above-ground applications (ramps)	●	●	●	●	●	●	●
<b>Grate</b>							
Stainless steel V2A (1.4301)					●	●	
Steel (S 235 JR)	●	●	●	●			
Synthetic material (PA 66 GF35)							●
<b>Tray</b>							
Stainless steel V2A (1.4301)	●	●	●	●	●	●	●
Brush strips per grate	10	10	14	14	10	14	14
Grates per segment	2	2	2	2	2	2	4
<b>Modular unit</b> (number of segments W x L)	<b>1 x 1</b>	<b>1 x 1</b>	<b>1 x 1</b>	<b>1 x 1</b>	<b>1 x 1</b>	<b>1 x 1</b>	<b>1 x 1</b>
Tray size (W x L in mm)	718 x 980	718 x 980	718 x 980	718 x 980	718 x 980	718 x 980	732 x 1424
Number of grates x weight	2 x 29 kg	2 x 27 kg	2 x 31 kg	2 x 27 kg	2 x 26 kg	2 x 28 kg	4 x 10 kg
	<b>1.5 x 1</b>	<b>1.5 x 1</b>	<b>1.5 x 1</b>	<b>1.5 x 1</b>	<b>1.5 x 1</b>	<b>1.5 x 1</b>	<b>1.5 x 1</b>
	1069 x 980	1069 x 980	1069 x 980	1069 x 980	1069 x 980	1069 x 980	1092 x 1424
	3 x 29 kg	3 x 27 kg	3 x 31 kg	3 x 27 kg	3 x 26 kg	3 x 28 kg	6 x 10 kg

b65 go	b55 go	st65 go	st55 go	i55 go	sti55 go	i55 aqua	i45 aqua	sti55 aqua	sti45 aqua
65	55	65	55	55	55	55	45	55	45
+20	+10	+20	+10	+10	+10	+10	-	+10	-
30	30	30	30	20	20	20	10	20	10
		●	●		●			●	●
≥31	≥31	≥24	≥24	≥31	≥24	≥31	≥31	≥24	≥24
●	●	●	●	●	●				
				●	●	●	●	●	●
●	●	●	●						
●	●	●	●	●	●	●	●	●	●
10	10	14	14	10	14	10	10	14	14
2	2	2	2	2	2	2	2	2	2
<b>1 x 1</b> 718 x 980 2 x 29 kg	<b>1 x 1</b> 718 x 980 2 x 27 kg	<b>1 x 1</b> 718 x 980 2 x 31 kg	<b>1 x 1</b> 718 x 980 2 x 27 kg	<b>1 x 1</b> 718 x 980 2 x 26 kg	<b>1 x 1</b> 718 x 980 2 x 27 kg	<b>1.5 x 1</b> 1115 x 1026 3 x 26 kg	<b>1.5 x 1</b> 1119 x 1026 3 x 21 kg	<b>1.5 x 1</b> 1115 x 1026 3 x 27 kg	<b>1.5 x 1</b> 1119 x 1026 3 x 23 kg
<b>1.5 x 1</b> 1069 x 980 3 x 29 kg	<b>1.5 x 1</b> 1069 x 980 3 x 27 kg	<b>1.5 x 1</b> 1069 x 980 3 x 31 kg	<b>1.5 x 1</b> 1069 x 980 3 x 27 kg	<b>1.5 x 1</b> 1069 x 980 3 x 26 kg	<b>1.5 x 1</b> 1069 x 980 3 x 27 kg	<b>2 x 1</b> 1470 x 1026 4 x 26 kg	<b>2 x 1</b> 1473 x 1026 4 x 21 kg	<b>2 x 1</b> 1470 x 1026 4 x 27 kg	<b>2 x 1</b> 1473 x 1026 4 x 23 kg
						<b>2 x 2</b> 1470 x 1995 8 x 26 kg	<b>2 x 2</b> 1473 x 1997 8 x 21 kg	<b>2 x 2</b> 1470 x 1995 8 x 27 kg	<b>2 x 2</b> 1473 x 1997 8 x 23 kg
						<b>2.5 x 3</b> 1824 x 2963 15 x 26 kg	<b>2.5 x 3</b> 1829 x 2967 15 x 21 kg	<b>2.5 x 3</b> 1824 x 2963 15 x 27 kg	<b>2.5 x 3</b> 1829 x 2967 15 x 23 kg
Additional ProfilGate® aqua module units are deliverable – we are pleased to advice you!									

# Special Solutions



**In addition to the typical and common installations of ProfilGate®, there is a large number of special and custom solutions available.**

We are known for serving global industry with custom solutions for their special needs since 1905. From loading docks to freight elevators and staircases to freezer solutions – contact the ProfilGate® team for your individual facility needs.



## **In combination with a sole cleaning machine**

### **ProfilGate® i45 aqua**

A ProfilGate® installation for the material handling devices in combination with sole cleaning equipment represents a practical and logical solution.

This way you can simultaneously disinfect your employee's shoes and the carts' wheels while moving into high risk areas.

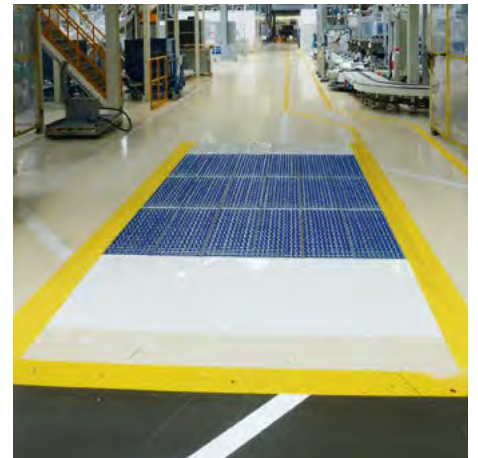


## **Between workshops and hygienic areas**

### **ProfilGate® st55**

Workshops and maintenance areas are often located next to production areas to have short distances. This makes it difficult to protect hygienic areas from critical dirt such as metal shavings originated in the engineering workshop!

ProfilGate® is a perfect separation for all your entrances and ensures a thorough elimination of foreign objects.



## **Above-ground installation with ramps made from epoxy resin**

### **ProfilGate® b55**

If ProfilGate® cannot be lowered in the floor, we recommend above-ground installation with ramps made from epoxy resin. In this way, ProfilGate® can be utilised in complex installation projects.



## Automated Guided Vehicles (AGVs)

### ProfilGate® st55 / st65

The ProfilGate® system is well suited to clean the casters and wheels of almost any AGV. AGVs mostly travel along the same route and therefore wear down the coated floors.

By cleaning the wheels regularly, you will notice less wear and tear on the floors. Their lifetime is extended. In addition, you prevent dirt distribution from one area to another.

ProfilGate® cleaning fields can be simply retrofitted with a guiding rail for AGV.



## Above-ground roller cleaning with ramps

### ProfilGate® b55 with ramps

A temporary or permanent above-ground solution is often preferred when it is not possible to install the units into the ground or if you require a flexible solution that can be moved to different areas.

Flat ramps allow for driving over the cleaning solution with almost any vehicle.



## Integrated into loading docks

### ProfilGate® st55

ProfilGate®-fields can also be directly integrated into loading bridges.

Entry of dirt from articulated vehicles are often underestimated. The load beds are continuously contaminated by traffic and frequent loading and unloading.

ProfilGate® stops and collects the dirt directly on the loading ramp.



## Cleaning lock in front of the lift

### ProfilGate® st55

A ProfilGate®-field in front of the lift is perfectly suitable to avoid dirt entry into the clean production floor.

As regards lifts equipped with bilateral doors ProfilGate® can be installed inside the lift as well.

# Accessories

For the optimum operation of ProfilGate® there are useful accessories available.



## ProfilGate® Lifter

The new ProfilGate® Lifter helps you to take out the grates in a very easy and back-friendly way, by only one person. It saves labor cost by minimizing the low maintenance work, even further!



## Long lifting hooks

Two lifting hooks ease taking out the grates when the capturing trays need to be emptied.



## Bollards

Bollards used for forced guidance of vehicles to utilise of the entire field length. Flexible and resilient.



## ProfilGate® DryZone

The unique ProfilGate® DryZone absorbs fluids as water, emulsions, oils and more, providing reliable drying performance on the running surfaces of tires, rollers and wheels.

The ProfilGate® DryZone can be combined with all other models and can retrofit all existing ProfilGate® installations.



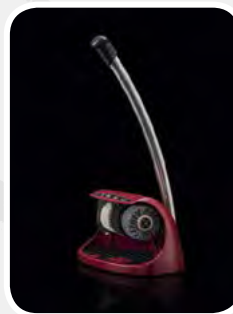
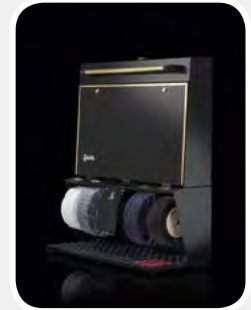
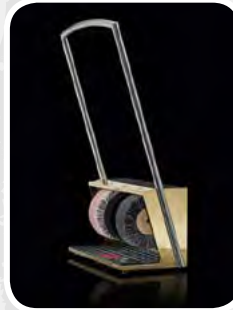
## Maintenance board

Even though the ProfilGate® system is basically maintenance free, even the best system needs to be emptied/ cleaned from time to time. To assure that this is done regularly and in order to have a reliable documentation, we provide our customers with the ProfilGate® maintenance board.

## Further products of HEUTE



### Shoe Shine Machines



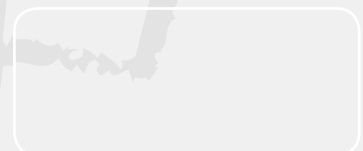
Since more than 60 years,  
the shoe shine machines from  
HEUTE are in use worldwide.



### Sole cleaning in industrial environments



Since several decades the company  
HEUTE offers a huge variety of customized  
cleaning solutions for industrial purposes.





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