

NSL NSL Technology Resources (s) Pte Ltd
No 280 Woodlands Industrial Park E5,
#09-11 Harvest @ Woodlands,
Singapore 757322
Tel : +65 67957477, 7747 Fax : +65 63162368
Email : sales@nsltechnology.com



Patented Sole and Tire Disinfection System for the Meat Processing Industry

www.nsltechnology.com a product of



The Problem...

People walking and vehicles driving between dirty and clean areas (i.e. between personnel entry and shop floor)

⇒ Consequence:

1. High risk of microbiological contamination
2. High risk of ingress of foreign matter



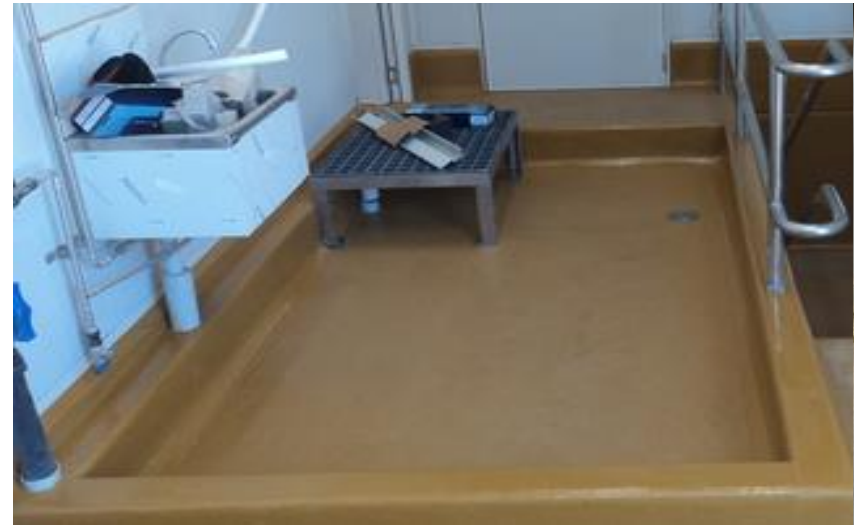
Current and unsatisfactory remedies:

- ❌ Electric sole cleaners (disinfection, but create bottlenecks, need power supply and do not cover vehicles)
- ❌ Separate traffic between low risk and high risk areas (logistical inflexibility)
- ❌ Sticky mats (not durable, very quick wear and tear)



Current and unsatisfactory remedies:

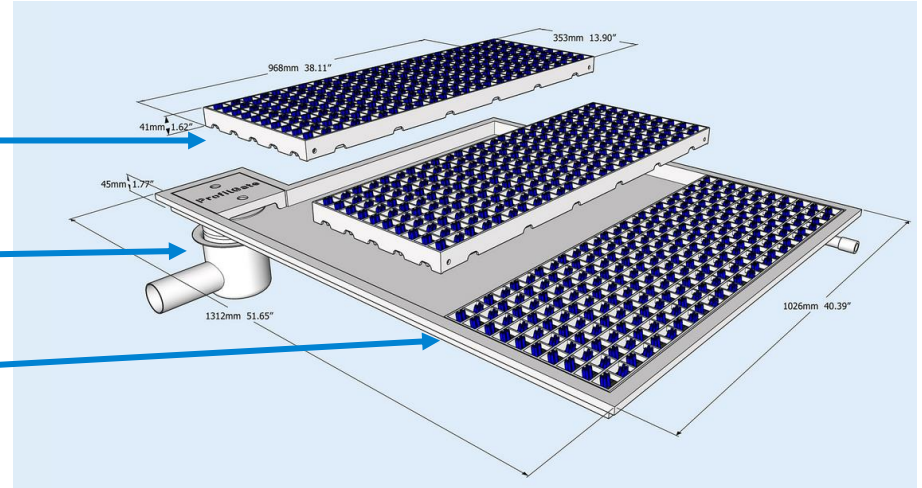
- 🗨️ Carpets (source of Germs & Contamination)
- 🗨️ Foot baths (disinfection, but no physical dirt removal and not applicable for vehicles and tire cleaning)
- 🗨️ Nothing at all



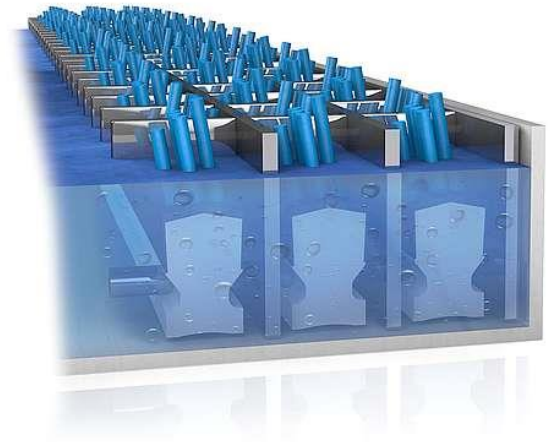
The all carefree solution – ProfilGate® Aqua

Components

- Separated grates (Stainless Steel) with patented brush strips
- Drain for easy cleaning and refreshing of liquid
- Collection tray (Stainless Steel) for filling of liquid and disinfection



The ProfilGate®
Video is available here:



The all carefree solution – ProfilGate® Aqua

Advantages

- ✔ Process-safe element for cleaning process and optimum hygiene.
- ✔ Active Brush Cleaning and disinfection of shoe soles and tires in only one process.
- ✔ Key-element for each hygiene concept.
- ✔ No stoppages necessary, cleaning while passing the system.
- ✔ Low maintenance.
- ✔ Extreme long durability and warranty.



Picture: Hygiene sluice in Dairy



Picture: Hygiene sluice in Meat Processing factory

The all carefree solution – ProfilGate® Aqua

Certifications

- 👍 ProfilGate® Aqua is FDA approved!
- 👍 ProfilGate® Aqua is HACCP compliant!
- 👍 ProfilGate is compliant to following standards:
- 👍 Customers use ProfilGate® Aqua as element to become BRC certified!



Picture: ProfilGate® Aqua installation



Picture: ProfilGate® Aqua installation

Proven Effectiveness – Wet Cleaning



UNIVERSITÄT **BONN**

Scientific analysis of
microbiological effectiveness
using RODAC plates
and swab test



The ProfilGate® aqua version effectively
cleans and disinfects tires, rollers, wheels
and soles

**Test Results on the next page – Scientific
report available on request!**

Proven Effectiveness – Test Results

	Rollers After application of MO + drying	Soles After application of MO + drying	Rollers After driving over the fields	Soles After passing the fields	Reduction
E. coli	RODAC - plate	Lawn/ 25 cm ²	141 cfu/ 25 cm ²		Significant reduction
	Swab	ca. 10 ⁵ cfu/ml *	ca. 10 ³ cfu/ml *	ca. 10 ³ cfu/ml *	2log ₁₀ -Steps = 99%
Enterococcus faecium	RODAC - plate	Lawn/ 25 cm ²	46 cfu/ 25 cm ²	60 cfu/ 25 cm ²	Significant reduction
	Swab	ca. 10 ⁶ cfu/ml *	ca. 10 ⁵ cfu/ml *	ca. 10 ⁴ cfu/ml *	2log ₁₀ -Steps = 99%
Aspergillus niger	Swab	ca. 10 ⁴ cfu/ml *	ca. 10 ³ cfu/ml *	Not tested	1log ₁₀ -Steps = 90%

Lawn: proliferation of nutrient agar by microorganisms (MO) (more than 1000 germs per plate)

cfu: colony forming unit

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

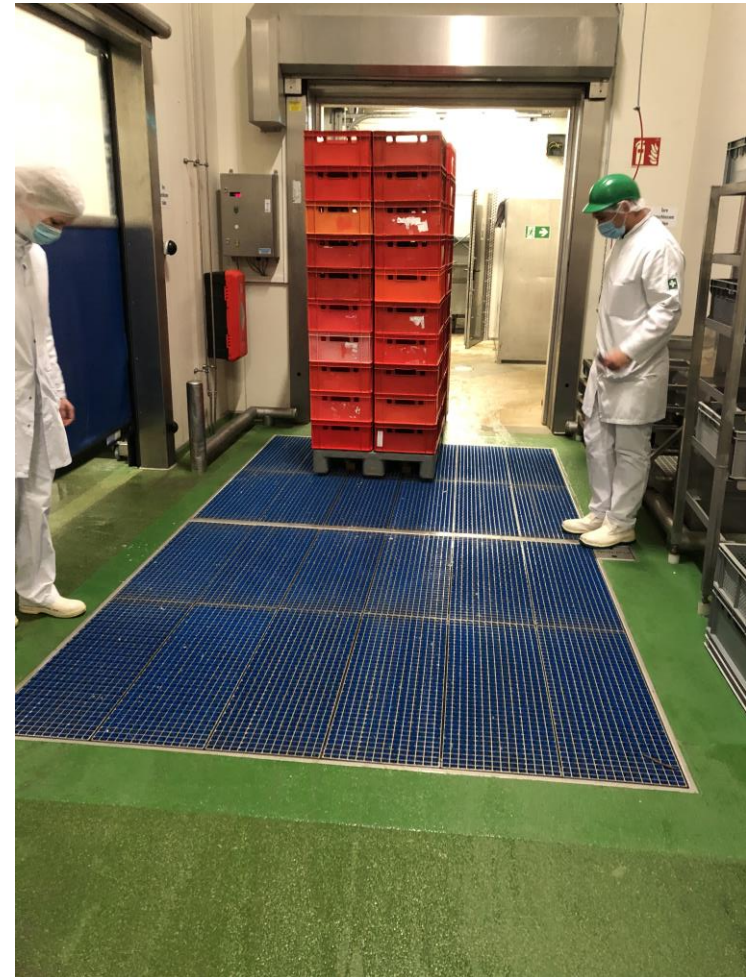
Applications in Meat Processing

With ProfilGate® Aqua tires and soles can be cleaned and disinfected in hygiene sluices.



Applications in Meat Processing

The included drain & inlet system allows an easy cleaning according to the hygiene concept



Applications in Meat Processing

Contamination can also be easily prevented in key areas such as waste disposal or the workshop area.



ProfilGate® - The Future is now

Proven hygiene concept for Smart Factories

Internationally (ap)proved element for each hygiene concept!

Being implemented currently globally by all large food processors (such as Goldschmaus, Golßener Fleisch- und Wurstwaren, Volys Star, Fleischwaren Berger, Raddatz, etc.)!

Fulfilling hygiene audits with ease!





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