

# Patented Sole Cleaning System for the **Food Industry**

# The Problem...



Dirt ingress via  
the shoe soles  
of the employees

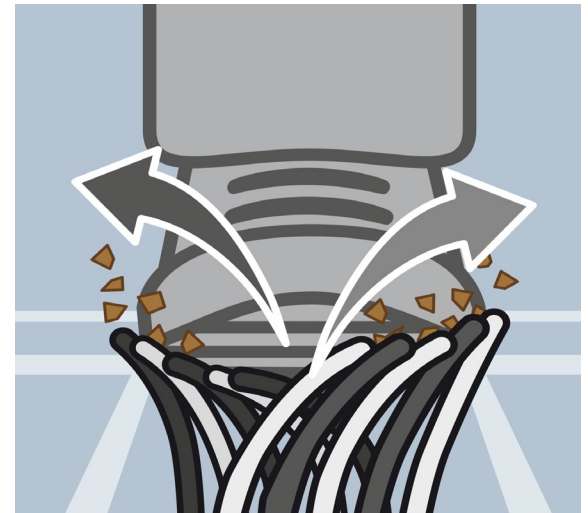
# ... the Solution: Active Sole Cleaning!



# The Principle



The ProfilGate®  
Video is available here:



# The Advantages

- purely mechanical cleaning of shoe soles
- high efficiency due to patented brush strips with slanted bristles
- Long durability due to solid grates
- easy cleaning and maintenance
- no energy costs



# Proven Effectiveness – Wet Cleaning



Scientific analysis of  
microbiological effectiveness  
using RODAC plates  
and swab test

# Proven Effectiveness – Test Results

	Rollers after application of MO + drying	Soles after application of MO + drying	Rollers after passing the fields	Soles after passing the fields	Reduction	
<b>E. coli</b>	<b>RODAC - Plate</b>	Lawn/ 25 cm <sup>2</sup>	Lawn/ 25 cm <sup>2</sup>	141 cfu/ 25 cm <sup>2</sup>	Lawn/ 25 cm <sup>2</sup>	Significant reduction (for rollers) No discernible reduction (for soles) **
	<b>Swab</b>	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%
<b>Enterococcus faecium</b>	<b>RODAC – Plate</b>	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
	<b>Swab</b>	ca. 10 <sup>6</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%
<b>Aspergillus niger</b>	<b>RODAC - Plate</b>	Lawn/ 25 cm <sup>2</sup>	<i>Not tested</i>	Lawn/ 25 cm <sup>2</sup>	<i>Not tested</i>	No discernible reduction
	<b>Swab</b>	ca. 10 <sup>4</sup> cfu/ml *	<i>Not tested</i>	ca. 10 <sup>3</sup> cfu/ml *	<i>Not tested</i>	1log <sub>10</sub> -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.

\*\* For reduction values in this range the RODAC method is often not sensitive enough

# Typical Applications





# When is the Application worthwhile?

- in cases where in-house cleanliness is indispensable
- in cases where the entering of dirt via the shoe soles of the employees shall be reduced
- in cases where workplace safety shall be improved
- in cases of high cleaning costs



# Sole Cleaning References





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