

*Mats for Professional Use*

## Ergonomic Anti-Fatigue and Safety Matting



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# Notrax® Matting Testing & Pictograms

Notrax® Mats for Professional Use are subject to rigorous testing by independent laboratories prior to their introduction to the market.

Our Product Testing Charts show the following relative comparisons between the Notrax® mats featured in each category of this brochure:

## Example Product Testing Chart



### Wear resistance

Indicates the time it takes for a mat to lose its functionality. This is an accelerated wear test where the results are expressed in total weight loss of material when subjected to 5000 cycles under an abrasion wheel. The higher the pointer in the test chart, the greater its resistance to wear.

### Slip resistance

Indicates the slip resistance of a mat. This test measures the force required to cause slippage of a load across the surface material. The coefficient is the ratio of force required divided by the weight. The higher the pointer in the test chart, the greater the coefficient of friction ratio, thus the better the slip resistance of a mat.

### Anti-fatigue

Indicates the degree of comfort a mat provides. This test starts by measuring the original thickness of a mat. Then compression is applied and the thickness under this load is measured again. The difference between the two measurements is called deflection. The higher the pointer in the test chart, the better its anti-fatigue properties.



#### Anti-Fatigue

Matting restores balance, stimulates blood flow and helps reduce stress on the lower back and legs.



#### Grip Step®

Coating for extra adherence in extremely slippery areas. Slip resistance up to R13 according to DIN 51130.



#### Heavy Duty

Recommended for heavy duty use in industrial environments.



#### RedStop™

This uniquely engineered technology virtually eliminates the slipping and sliding of mats.



#### Anti-Slip

Matting designed to provide added traction through aggressive surface patterns.



#### Drainage

Open construction allows for liquids and debris to pass through, providing secure footing in a wet or dry environment.



#### Medium Duty

Recommended for medium duty use in industrial environments.



#### MicroStop™

Antibacterial treatment inhibits the growth of micro-organisms, bacteria and fungi.



#### Oil Resistant

Matting suitable for contact with industrial oils.



#### Protection

Absorbs impact, reduces breakage and protects floors.



#### Light Duty

Recommended for light duty use in industrial environments.



#### NFSI®

Tested and certified by the National Floor Safety Institute.



#### Welding

Made of durable fire retardant rubber compounds. These mats can be used in areas where welding takes place.



#### Non-Conductive

Matting formulated to provide insulation to protect workers in case of electrical shock.



#### Modular System

Interlocking mats for on-site customization can be assembled as standalone mats or wall-to-wall.



#### PAH 3

Category PAH 3 classification tested according to ZEK 01.4-08 for polycyclic aromatic hydrocarbons.



#### ESD

Matting formulated to absorb static electricity. Avoids unpleasant static shock and safeguards equipment.



#### Wheeled Access

Matting suitable for wheeled access (i.e. carts).



#### Cold Resistant

Material can withstand freezing temperatures.



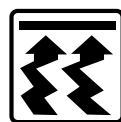
#### Barefoot

Pleasantly soft and warm under bare feet.



#### Fire Retardant

Matting designed to resist the spread of fire and withstand heat, substantiated by test certifications from independent laboratories.



#### Insulation

Matting insulates workers from cold/wet floors, heat, vibrations and noise to improve wellbeing.



#### Grease and Oil Resistant

Matting that is suitable for use in contact with vegetable oils and animal fats.



#### Cleaning

Suitable for cleaning with high pressure (hot) water jet.

**Notrax® is a portfolio company of Justrite Safety Group.**

For over a century, Justrite Safety Group has helped protect where the world works. Our mission is to identify workplace vulnerabilities and guide customers in creating an ecosystem of safety—so your team can work with confidence.

Confidence





*Start with the Essential<sup>SM</sup>*



### A Growing Justrite Family

In recent years we have grown, expanding Justrite Safety Group through the acquisition of other strong, valuable companies. Because of these exciting changes, we want to share our story with you—one of an unrivalled safety portfolio, expertise in environmental protection, a global network of brands, and a steadfast dedication to our customers' safety.

### Start with the Essential<sup>SM</sup>

The essence of our company is captured in a new tagline: Start with the Essential<sup>SM</sup>. At Justrite, everything starts with safety. Protecting people, property and the planet is our first and greatest responsibility. We provide the essential safety products you need to protect your workers and workplace.

Our company logo has recently evolved. The new logo honours our heritage in fire safety, while reflecting our expertise in containment and environmental protection.

For more information, please visit [www.notrax.eu/about-us](http://www.notrax.eu/about-us).



Justrite Safety Group offers industrial safety solutions and expert advice from our portfolio companies around the world.

We cover every facet of the industrial safety landscape—from the storage, containment and clean-up of hazardous materials to motion safety and emergency showers.

Whatever your needs, we can help you build the foundation of a safe, productive workplace.





#### **R.E.A.C.H.**

REACH is the European Community Regulation on chemicals and their safe use (EC 1907/2006). It deals with the Registration, Evaluation, Authorisation and Restriction of Chemical substances. The law entered into force on 1 June 2007 assigns manufacturers the responsibility of providing high level human and environmental protection from the use of chemicals in manufacturing. Notrax® does not use any substances currently included on the SVHC (Substances of Very High Concerns) list under REACH, including Di-octyl phthalate (DOP) plasticizer. Further information about our stand on sustainability can be obtained at [www.buynotrax.eu](http://www.buynotrax.eu) for registered distributors or upon email request to [saleseu@justrite.com](mailto:saleseu@justrite.com).

#### **Product Warranty**

All Notrax® floor matting is manufactured of the highest quality material and workmanship. Dependability and service of our products are guaranteed against defects in material for one year from date of purchase provided manufacturer's recommended usage and maintenance is followed. Buyer has the responsibility to determine the suitability of the product and assumes any liability in connection with such use. Seller shall not be liable for damages in excess of purchase price of product. In the unlikely event of a Notrax product being faulty, a full refund or replacement (based on manufacturer's discretion) will be made. Warranty claims must be authorized for return and shipped prepaid for inspection and evaluation. For information about floor matting maintenance: [www.notrax.eu/news](http://www.notrax.eu/news).

Notrax® offers the perfect solution for standing workers because unlike any other industrial safety matting manufacturer, we understand the difference of perceptions of workers as well as the variety of workplace conditions that exist. We therefore design and manufacture the largest range of safety matting to provide the right solution.

Notrax® is often referred to as one of the pioneers in anti-fatigue matting design and manufacturing. This is not surprising because since our founding in 1948, we have been committed to making quality products and optimizing processes.

#### Product Innovation

As one of the market leaders in anti-fatigue and safety matting, Notrax® Mats for Professional Use has become synonymous with quality, flexibility and customer service. What started as a small family-owned mat repair company has quickly grown to a global company. Now, as part of the Justrite Safety Group, we excel in the design and manufacturing of anti-fatigue and safety matting for industrial and commercial applications.

As the industry and manufacturing processes evolve, so do our matting products. We are constantly developing new products to meet the changing needs of the industry. We focus on customer problems and working together with them to create matting solutions that resolve the issue. Our innovations team continues to design state-of-the-art products through intense research and development using new technologies, new design techniques and new ideas.

Notrax® products are sold globally through our trusted distributor network of matting experts, operating in niche segments of ergonomics, cleaning and hygiene, health and safety, industrial supplies, installation experts, and many more. Understanding and responding to the markets specific needs reflects our interest and pleasure in serving our distributors and their customers. Examples of this include the development of mass customization capabilities and online integration with customers. As one of the world's largest integrated manufacturers of professional floor matting products, our belief in strong relationships is the foundation of our business.

With facilities in Europe and the United States, we constantly seek to reduce the environmental impact of our processes. It means that we aim to grow our business in an environmentally responsible manner, and we do this by focusing on diminishing waste, using recycled materials where possible, and by obtaining more materials from sustainable sources.

The "Lean" organization of our operations not only enables us to stay competitive and provide fast service, it also enables our customers to participate in a joint effort to reduce the carbon footprint simply by making use of our electronic purchasing and invoicing services and drop shipment capabilities.



Founded in 1948 by Charles J. Wood (far right).

This catalogue highlights the solutions Notrax® offers for your ergonomic anti-fatigue and safety matting applications. Feel free to also ask for the latest Notrax® brochure for Dust Control Matting for entrance ways.

Thank you for choosing Notrax®.

René Vieveen  
Managing Director

Justrite Safety Group EMEA BV



# Benefits of Anti-Fatigue Matting

In many industries, employees are required to work while standing, walking and/or carrying loads. Experts agree that matting can significantly improve productivity and employee satisfaction while reducing absenteeism and chronic illnesses related to long-term standing.

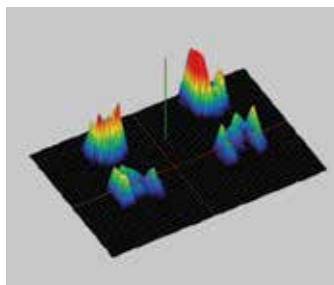


# How Anti-Fatigue Matting Works

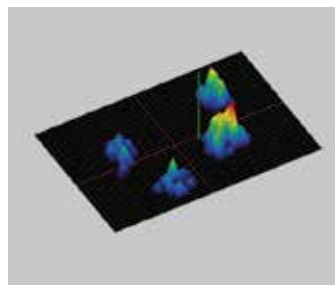
Standing on hard surfaces for long periods causes muscles to constrict, which reduces the blood flow. This makes muscles and joints hurt, and it causes blood to stagnate. Long-term standing causes pronation, or excessive flattening of the foot and can also lead to plantar fasciitis. Lower back pain is highest in workers who stand 4 hours or more per day.

How an anti-fatigue mat works is well described in an article that was published in the April 1999 issue of "Occupational Health & Safety", written by James M. Kendrick: "Anti-fatigue mats are engineered to make the body naturally and imperceptibly sway, which encourages subtle movement by calf and leg muscles. This promotes blood flow and keeps it from stagnating in the veins, which causes workers to feel fatigued."

As noted by Mr. Kendrick, the cushioning effect of anti-fatigue matting allows continuous micro-movements of the feet, which minimizes blood pooling in



With a mat



Without a mat

the legs. There is good reason to believe that reduction of fatigue also reduces the possibility of accidents and improves general work efficiency.

There are fewer days lost to injuries, fewer medical claims, and compliance with new health and safety requirements.

Too much cushioning can have a negative effect. Too much of softness or "give" will actually cause excessive fatigue because it overworks the muscles. Think of it like jogging in soft sand. Notrax® floor mats are made of specific formulations and designs for the right balance of cushioning and support fatigue relief which will contribute to increased productivity and employee satisfaction.

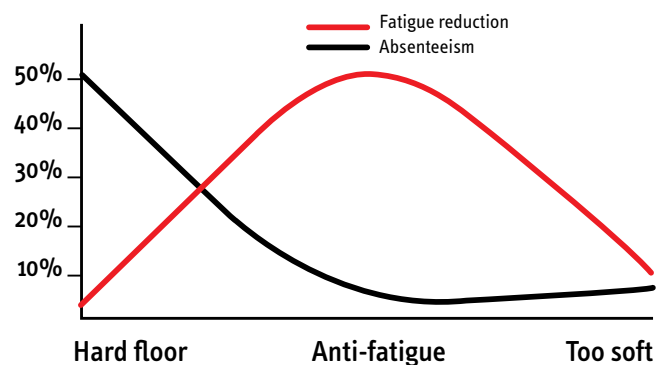
## Scientific Support

Early studies such as Morgora (1972) showed that the incidence of lower back pain was highest in those workers who stood regularly for periods of more than four hours and Bousseman et al. (1982) brought to light that long term standing is a direct cause of pain and discomfort.

Subsequent research carried out by Dr. Mark Redfern and Dr. Don Chaffin at the Centre for Ergonomics, University of Michigan in 1988, and Paula Hinnen and Stephan Konz at the Department of Industrial Engineering, Kansas State University, 1994, made observations of the difference between standing on hard floors versus standing on soft floors. Both their studies concluded that mats significantly affect fatigue and comfort in different body regions.

More recent studies by Prof. Dr. Redha Taiar (2011, 2015, 2017) at the University of Reims in France illustrated how human mechanics in a working environment are impacted through the use of anti-fatigue mats. By observing workers' posture and measuring foot pressure for employees standing

The effects of standing on anti-fatigue matting versus hard or too soft floors



for long periods, Prof. Taiar was able to identify two causes of fatigue and therefore a two-pronged approach in combating the muscular-skeletal disorders associated with long-term standing.

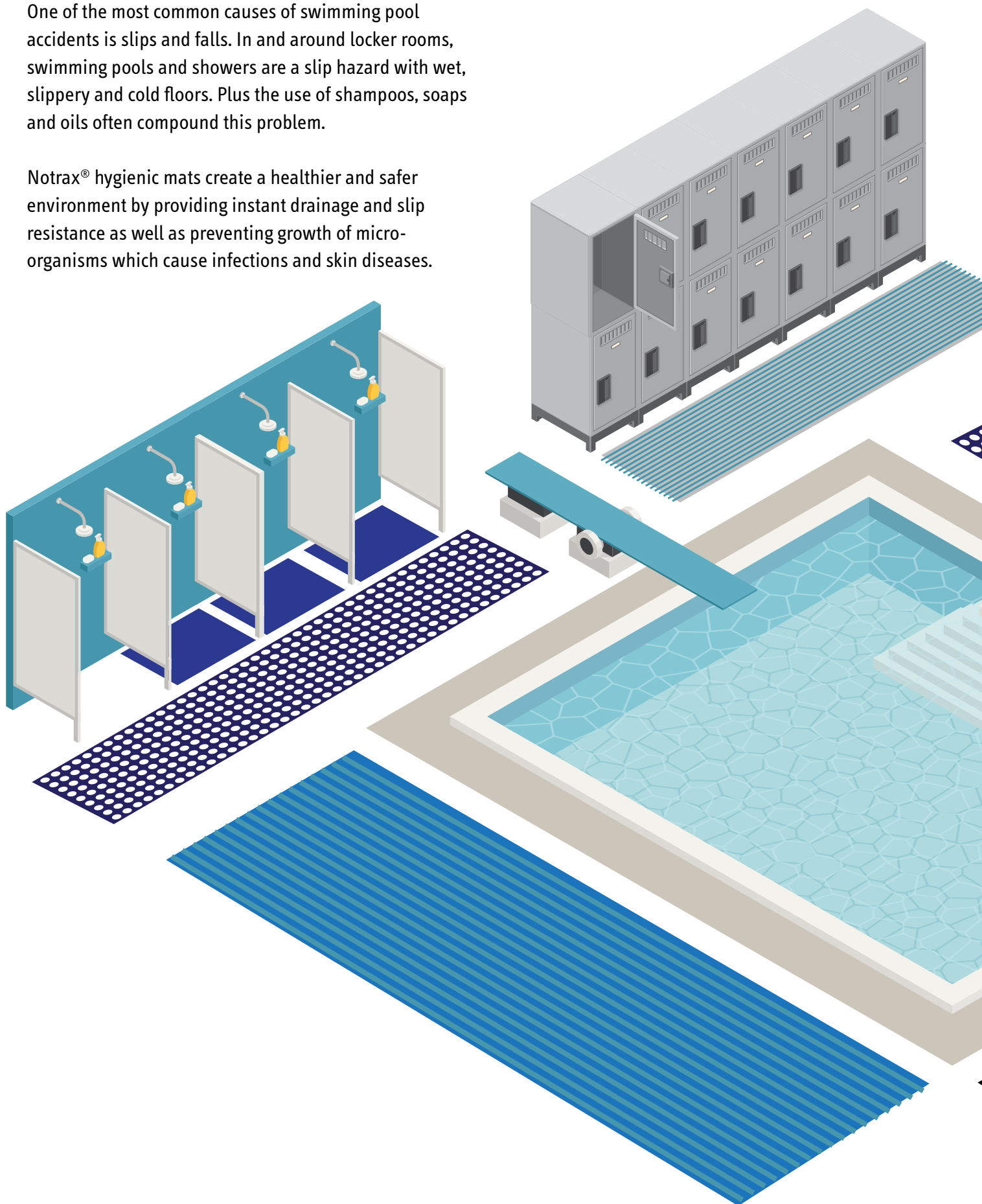
Firstly, the worker should vary foot pressure while standing to eliminate the overuse of the same muscles (Cinderella Fibers). Secondly, using an anti-fatigue mat eliminates pressure points from the floor and spreads weight evenly to correct balance. Prof. Taiar's findings confirmed that pains are substantially reduced with the use of anti-fatigue mats compared to the initial situation without mats.

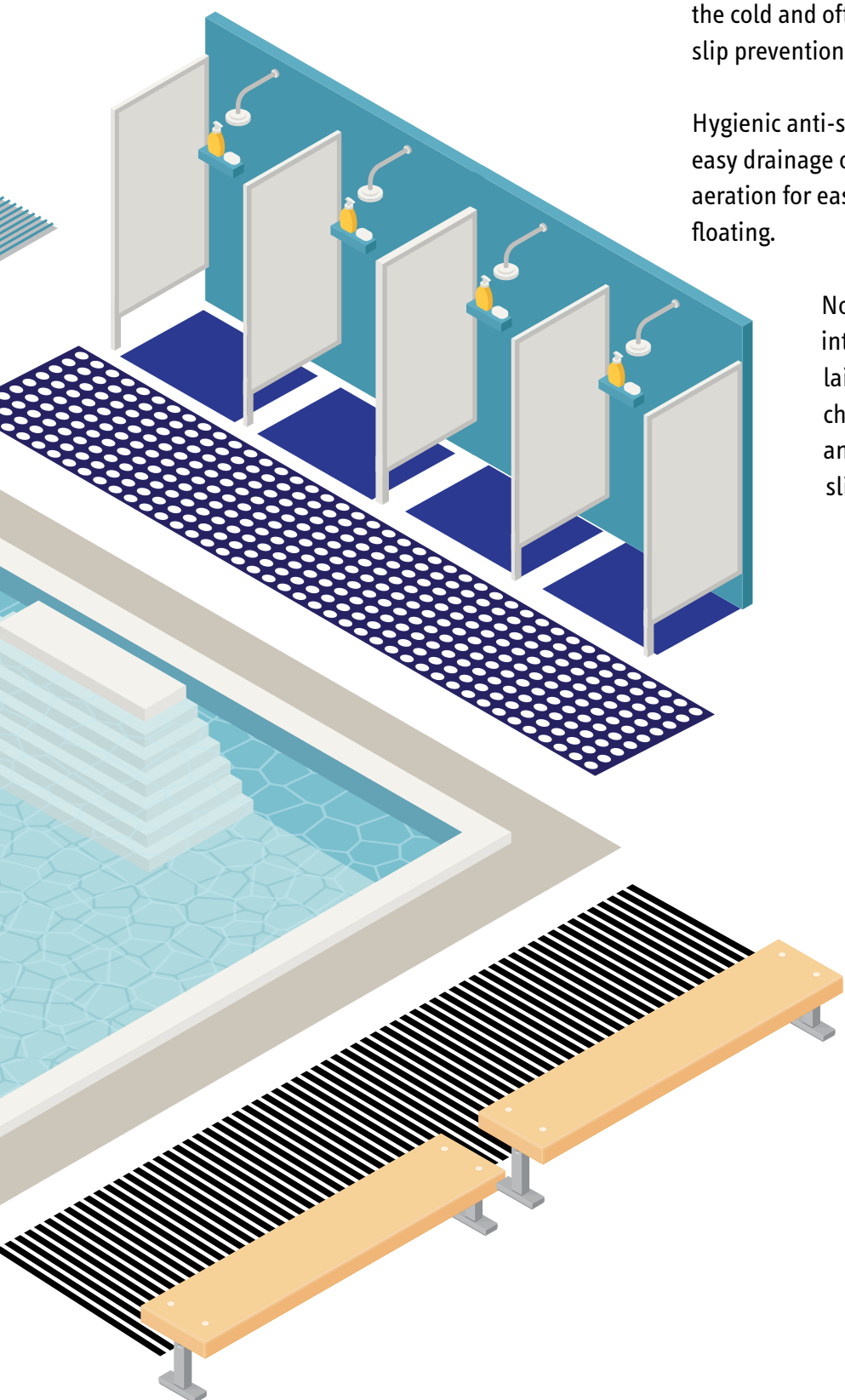
**To request a copy of Prof. Taiar's research, Standing Smart, visit [www.notrax.eu](http://www.notrax.eu).**

# Anti-Slip Hygienic Matting Solutions

One of the most common causes of swimming pool accidents is slips and falls. In and around locker rooms, swimming pools and showers are a slip hazard with wet, slippery and cold floors. Plus the use of shampoos, soaps and oils often compound this problem.

Notrax® hygienic mats create a healthier and safer environment by providing instant drainage and slip resistance as well as preventing growth of micro-organisms which cause infections and skin diseases.





Hygienic matting is treated with an anti-microbial additive to prevent growth of bacteria, fungi and other micro-organisms that cause odours, rashes, athlete's foot and other skin infections. The mat is designed to be comfortable and warm for bare feet, isolating users from the cold and often wet floors, while also offering grip for slip prevention.

Hygienic anti-slip matting with an open grid allows for easy drainage of water while the raised structure provides aeration for easy drying and prevents the mat from floating.

Notrax® matting is available on rolls or interconnecting tiles that can easily be laid, installed or customized for walkways, changing room floors, showers and saunas, and along swimming pools to prevent slipping.



## Wet Areas - Hygienic Mats

### **Soft and Warm for Happy Feet**

Durable hygienic matting creates a healthier and safer environment in wet areas such as shower facilities. The grip design creates a slip-resistant yet comfortable walking surface for bare feet.

Antimicrobial treated materials prevents growth of fungi and bacteria. Open structure for easy drainage. Easy to clean and requires minimal maintenance. Ideal for saunas, locker rooms and swimming pools.



## 536 Akwadek™

- Heavy duty UV resistant antibacterial PVC grid matting
- Overall thickness: 12 mm
- Weight: 7.5 kg per m<sup>2</sup>

### Colours:

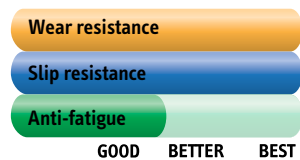
- Blue, Grey

### Full rolls 10 m:

- 60 cm, 91 cm and 122 cm widths

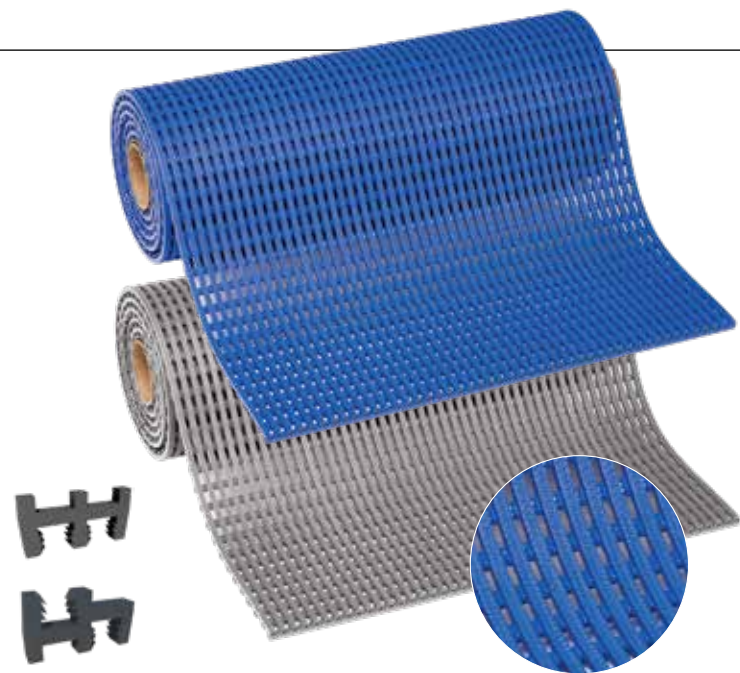
### Custom lengths:

- 60 cm, 91 cm and 122 cm widths



### Accessories:

- Black connector clips available for widthwise/lengthwise expansion
- 90-degree connections



## 538 Gripwalker Lite™

- Light duty UV resistant antibacterial PVC wave matting
- Overall thickness: 5.3 mm
- Weight: 3.6 kg per m<sup>2</sup>

### Colours:

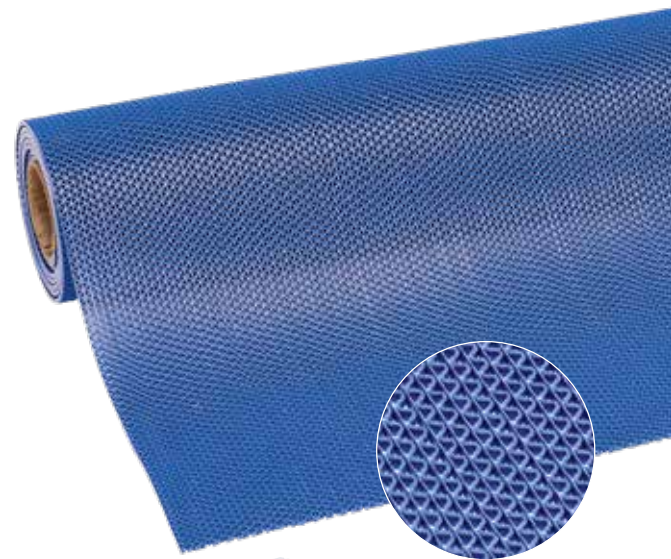
- Blue, Grey

### Full rolls 12.2 m:

- 91 cm and 122 cm widths

### Custom lengths:

- 91 cm and 122 cm widths



## 535 Soft-Step™

- Light duty UV resistant antibacterial polyethylene wave matting
- Overall thickness: 9 mm
- Weight: 4.3 kg per m<sup>2</sup>

### Colours:

- White-Dotted, Beige, Blue

### Full rolls 15 m:

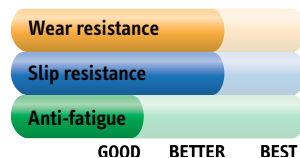
- 60 cm width x 15 m

### Custom lengths:

- 60 cm widths

### Accessories:

- Connector clips available for widthwise expansion



# Chemical Resistance Guide

[illegible]

|                               |        |                                |   |   |     |     |     |
|-------------------------------|--------|--------------------------------|---|---|-----|-----|-----|
| Iodine                        | Liquid | Inorganic Halogenated Compound | 4 | 3 | 1   | 1   | 4   |
| IRM 902                       | Liquid | Napathenic Oil                 | 4 | 2 | n/a | n/a | 2   |
| IRM 903                       | Liquid | Napathenic Oil                 | 4 | 2 | n/a | n/a | 2   |
| Jet Fuel                      | Liquid | Aromatic HC                    | 4 | 1 | 3   | 3   | 3   |
| Kerosene                      | Liquid | Aliphatic HC                   | 4 | 1 | 3   | 3   | 2   |
| Lacquers                      | Liquid | Aromatic HC (with alcohol)     | 4 | 4 | 4   | 4   | 4   |
| Linoleic Acid                 | Liquid | Fatty Acid                     | 4 | 2 | --- | --- | --- |
| Linseed Oil                   | Liquid | Fatty Acid                     | 4 | 1 | 2   | 1   | 2   |
| Methane                       | Liquid | Aliphatic HC                   | 4 | 1 | 2   | 2   | 3   |
| Methyl Alcohol (methanol)     | Liquid | Alcohol                        | 1 | 1 | 1   | 1   | 4   |
| Methyl Ethyl Ketone (MEK)     | Liquid | Ketone                         | 4 | 4 | 4   | 4   | 4   |
| Methyl Formate                | Liquid | Alcohol                        | 3 | 3 | 3   | 3   | 4   |
| Methyl Isobutyl Ketone (MIBK) | Liquid | Ketone                         | 4 | 4 | 4   | 4   | 4   |
| Methyl Methacrylate           | Liquid | Ester                          | 4 | 4 | 1   | 1   | 4   |
| Methylene Chloride            | Liquid | Aliphatic HC (halogenated)     | 4 | 4 | 4   | 4   | 4   |
| Mineral Oil                   | Liquid | Petroleum HC                   | 4 | 4 | 3   | 3   | 1   |
| Mineral Spirits               | Liquid | Aliphatic HC                   | 4 | 2 | 3   | 3   | 2   |
| Motor Oil 10w-30 (natural)    | Liquid | Paraffin Oil                   | 4 | 1 | 2   | 2   | 2   |
| Motor Oil 10w-30(synthetic)   | Liquid | Paraffin Oil                   | 4 | 2 | 2   | 2   | 2   |
| Napathenic                    | Liquid | Aromatic HC                    | 4 | 1 | --- | --- | 3   |
| Naptha                        | Liquid | Aromatic HC                    | 4 | 1 | 2   | 2   | 3   |
| Nitric Acid                   | Liquid | Acid (strong)                  | 4 | 4 | 4   | 2   | 4   |
| Nitric Acid                   | Liquid | Acid (strong)                  | 4 | 4 | 2   | 2   | 4   |
| Nitrobenzene                  | Liquid | Aromatic HC                    | 4 | 4 | 4   | 4   | 4   |
| Octane                        | Liquid | Aliphatic HC                   | 4 | 1 | 2   | 2   | 4   |
| Oleic Acid                    | Liquid | Acid                           | 4 | 2 | 3   | 3   | 2   |
| Oxalic Acid                   | Liquid | Acid (weak)                    | 2 | 2 | 2   | 3   | 3   |
| Peanut Oil                    | Liquid | Fatty Acid                     | 4 | 2 | 1   | 1   | 2   |
| Pentane                       | Liquid | Aliphatic HC                   | 4 | 1 | 2   | 2   | 4   |
| Perchloroethylene             | Liquid | Aliphatic HC (chlorinated)     | 4 | 2 | 3   | 3   | 4   |
| Petroleum                     | Liquid | Aliphatic HC                   | 4 | 1 | 2   | 2   | 2   |
| Phosphoric Acid               | Liquid | Acid (weak)                    | 2 | 3 | 1   | 1   | 4   |
| Pine Oil                      | Liquid | Turpene/Alcohol/Ether          | 4 | 3 | 4   | 4   | 2   |
| Pine Oil                      | Liquid | 20%+Pine-Soil                  | 3 | 2 | 3   | 3   | 1   |
| Potassium Hydroxide           | Liquid | Base (strong)                  | 2 | 2 | 1   | 1   | 3   |
| Power Steering Fluid          | Liquid | Napathenic Oil                 | 4 | 1 | 2   | 2   | --- |
| Propane                       | Liquid | Aliphatic HC                   | 4 | 1 | 1   | 1   | 2   |
| Propyl Alcohol (propanol)     | Liquid | Alcohol                        | 1 | 1 | 2   | 2   | 4   |
| Propylene Dichloride          | Liquid | Aliphatic HC                   | 4 | 4 | 4   | 4   | 4   |
| Salt Water                    | Liquid | 1                              | 1 | 1 | 1   | 1   | 1   |
| Silicates                     | Solid  | Alkali Metals                  | 1 | 1 | 1   | 1   | 1   |
| Silver Nitrate                | Solid  | Inorganic Salt                 | 1 | 2 | 1   | 1   | 1   |
| Sodium Bicarbonate            | Solid  | Inorganic Salt                 | 1 | 1 | 1   | 1   | 1   |
| Sodium Hydroxide              | Liquid | Base (strong)                  | 2 | 2 | 2   | 2   | 3   |
| Sodium Hydroxide              | Liquid | Base (strong)                  | 1 | 1 | 1   | 1   | 1   |
| Sodium Hypochlorite (bleach)  | Liquid | Base                           | 1 | 1 | 1   | 1   | 4   |
| Stearic Acid                  | Liquid | Fatty Acid                     | 3 | 1 | 2   | 2   | 1   |
| Styrene                       | Liquid | Aromatic HC                    | 4 | 4 | 4   | 4   | 3   |
| Sulfuric Acid                 | Liquid | Acid (strong)                  | 3 | 4 | 1   | 1   | 4   |
| Sulfuric Acid                 | Liquid | Acid (strong)                  | 4 | 4 | 4   | 4   | 4   |
| Sulfuric Acid                 | Liquid | Acid (strong)                  | 2 | 2 | 1   | 1   | 2   |
| Tetrahydrofuran (THF)         | Liquid | Ether                          | 4 | 4 | 4   | 4   | 3   |
| Toluene (methyl benzene)      | Liquid | Aromatic HC                    | 4 | 3 | 4   | 4   | 4   |
| Transmission Fluid            | Liquid | Napathenic or Paraffin Oil     | 4 | 1 | 2   | 2   | 1   |
| Trinitrobenzene               | Liquid | Aromatic HC                    | 4 | 4 | 4   | 4   | --- |
| Turpentine                    | Liquid | Aliphatic HC                   | 4 | 1 | 4   | 4   | 4   |
| Vegetable Oil                 | Liquid | Aliphatic HC                   | 4 | 1 | 2   | 1   | 1   |
| Vinegar                       | Liquid | Acid (weak organic)            | 3 | 1 | 1   | 1   | 3   |
| Xylene                        | Liquid | Aromatic HC                    | 4 | 4 | 4   | 4   | 4   |

LEGEND:

- 1 = Recommended
- 2 = Suitable for Use
- 3 = Suitable, not recommended
- 4 = Not Recommended

Use of product in environments specified as “3” or “4” may lead to product failure and will void warranty.  
These ratings are intended to be used as a guide only. For decisive results, please call for a free product sample for on-site testing in actual conditions.  
Actual results may vary depending on concentration of chemicals. Ratings for products 470, 479, 782 refer to top surface.

NB: Under all circumstances regular cleaning is strongly recommended for hygienic/safety reasons and to reduce the effects of abrasion or aggressive industrial fluidson mats, thereby maintaining their effectiveness longer.



Justrite Safety Group



Since its humble beginnings as a small family-owned company in 1948, our commitment has been to make quality products and to continue looking for innovative ways of serving our customers. Notrax® operates manufacture facilities in Mississippi and Illinois in the United States and Barendrecht in The Netherlands. Now, as part of the Justrite Safety Group, we excel in the design and manufacturing of anti-fatigue and safety matting for industrial and commercial applications.

#### **Ergonomic, Anti-fatigue & Safety Matting**

- Anti-fatigue matting
- Anti-slip mats
- Welding mats
- Electrostatic discharge mats
- Food processing and food service mats
- Hygienic mats

#### **Industrial Specialties**

- Switchboard matting
- Mats with sorbents
- Rubber runners and liners

*To learn more about our full portfolio of products, please visit **[notrax.eu](https://notrax.eu)***