

## INTERNATIONAL LOCATIONS

## Headquarters

**TROCELLEN GmbH Deutschland**  
Mülheimer Straße 26  
53840 Troisdorf  
Germany  
Phone: +49 2241 85 04  
Fax: +49 2241 85 37 53

## TROCELLEN Italia S.p.A.

Via dei Dossi 7/9  
S.S. 525 del Brembo  
24040 Osio Sopra (BG)  
Italy  
Phone: +39 035 50 70 11  
Fax: +39 035 50 21 74

## TROCELLEN Italia S.p.A.

Via Schiavonesca Nuova, 8  
31040 Volpago del Montello (Treviso)  
Italy  
Phone: +39 0423 873602  
Fax: +39 0423 621434

## TROCELLEN Ibérica S.A.

C/Avila, s/n  
28804 Alcalá de Henares  
Spain  
Phone: +34 91 885 55 00  
Fax: +34 91 885 55 01

## TROCELLEN GmbH UK Office

Central Chambers, 77 Westborough  
Scarborough, North Yorkshire  
YO11 1 TP  
United Kingdom  
Phone: +44 1723 376 111  
Fax: +44 1723 376 444

## TROCELLEN Rus

141402 Moscow region  
Himki-2, post box 186  
Russian Federation  
Phone: +7 495 739 44 21  
Fax: +7 495 739 44 38

## Polifoam Plastic Processing Co. Ltd.

**Hungary**  
Táblás u. 32  
1097 Budapest  
Hungary  
Phone: +36 13 47 98 00  
Fax: +36 12 80 67 08

## TROCELLEN S.E.A. Sdn Bhd

Lot 2213, Batu 9 Kebun Baru,  
Jalan Kasawari,  
42500 Telok Panglima Garang  
Selangor Darul Ehsan  
Malaysia  
Phone: +60 3 31 22 12 13  
Fax: +60 3 31 22 12 11



Trocellen. Light weight,  
environmental friendliness  
and great simplicity

50° 49' N	07° 09' O	<b>Germany</b>
40° 28' N	03° 21' O	<b>Spain</b>
41° 53' N	12° 28' O	<b>Italy</b>
47° 30' N	19° 02' O	<b>Hungary</b>
58° 49' N	53° 07' O	<b>Russia</b>
02° 54' N	101° 28' O	<b>Malaysia</b>
35° 40' N	139° 49' O	<b>Japan</b> FURUKAWA Otsuka
39° 54' N	116° 23' O	<b>China</b> FURUKAWA Otsuka

ALWAYS ONE STEP AHEAD

**TROCELLEN**  
FURUKAWA Otsuka

**SHOCKFREE**  
The new star of Trocellen's Footwear galaxy.

## TROCELLEN FOOTWEAR

Based in Montebelluna (TV), which is known as the heart of the sports shoe district, the business unit Footwear avails itself of highly qualified technicians and employees and offers an extensive range of innovative materials catalogued in an efficient system, as well as many converting possibilities. In this way Trocellen Footwear anticipates and responds the technical and commercial needs of the customers with reliable know-how and cost-efficient production processes.

## TROCELLEN SHOCKFREE

The well known and reliable technology of Trocellen Tatami mats for martial arts is now being successfully used in the Footwear industry. Maximum shock absorption combined with lightweight and faster prototyping and production processes create a unique possibility to increase the profitability of your business and the satisfaction of the end users.

- Trocellen cross-linked PE foam → environmentally friendly, non-toxic and reusable.
- Lightweight and long lasting shock absorption → maximum comfort for end users.
- Breathable material through perforation process → increased breathability of the shoes.
- Thermo moulding as alternative to injection → simplifies the prototyping and production processes, providing an improved quality and technical performance of the final product.
- Wide range of application possibilities → from martial arts mats and sport products to almost every type of footwear and clothing applications.

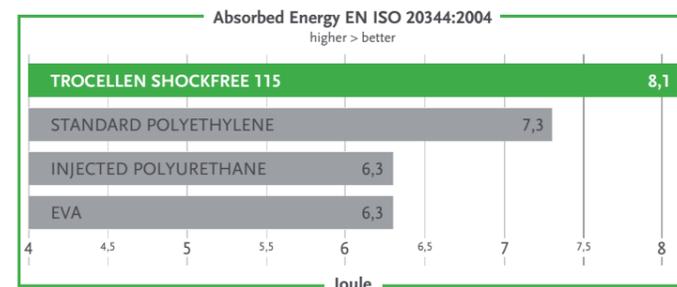
Based on Trocellen Tatami technology for martial arts the shock absorbing properties of Trocellen Shockfree surpass the industry standards. Trocellen Shockfree was tested together with different types of PE and PU foams. Tests made by Ricotest, worldwide well known laboratory for footwear testing.



## HEEL ENERGY ABSORPTION

Test based on ISO standards for safety shoes (EN ISO 20344:2004)

**Minimum Required Values:** (values for entire shoes, not individual insoles)  
 Safety footwear: 20 Joule  
 Woman's town footwear: 10 Joule  
 Generic free time footwear: 10 -15 Joule (suggested by CEN/TC 309 Commission)



**Test Results:** (only individual insoles were tested)

- Trocellen Shockfree as individual insole reached up to 8,1 Joule, reaching almost the minimum requirements needed for complete woman's town or free time footwear.
- Shoes equipped with Trocellen Shockfree foamed insoles can easily reach the minimum requirements for impact shock absorption, offering designers the complete freedom for fashion trends.
- Trocellen Shockfree. Maximum comfort based on safety and shock absorption.

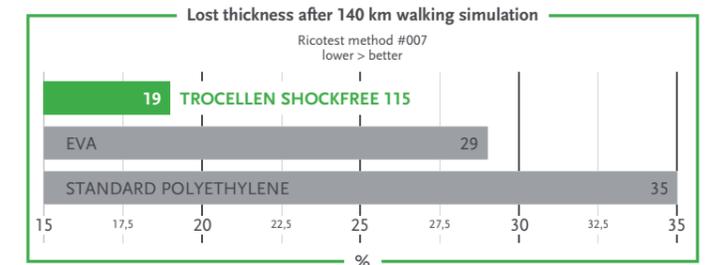
## LONG LASTING PERFORMANCE

Ricotest internal testing method (007)

This test simulates the compression set of the materials after 140 km of walking by a person with average weight. Simulation using 100.000 cycles applying 90 kPa pressure.

**Average Values:** Ricotest database shows that 29-35% range of compression set is the average percentage lost for most of the used foams in the market, while less than 20% is rare.

**Test Results:** The 19% reached by Trocellen Shockfree has almost never been performed by any foam used in the footwear market.



Trocellen Shockfree provides excellent compression set and long lasting performance surpassing the industry standards.

