# TECHNICAL DATA SHEET
# RigliteX SolidGrip S5 brown/black

## General information

| | |
|---|---|
| **Size range** | |
| • EU | 36 - 49 |
| • UK | 3.5 - 15 |
| • US | 4 - 16 |
| The testresults in this technical datasheet are performed on size EU 42, UK 8, US 9 | |
| **Weight / pair** | |
| • Safety level: Steel toe cap & midsole | ± 1 721 g |
| **Colours** | |
| | |
| | brown - black |

## Upper

| | |
|---|---|
| **A. Dimensions** | |
| • Height | outer measure: 26.5 - 29.5 cm |
| • Foot length | outer measure: 30.0 cm |
| | inner measure: 28.0 cm |
| **B. Thickness** | |
| • Upper edge | 3.8 - 4.2 mm |
| • Calf | 2.8 - 3.4 mm |
| • Shinbone | 2.8 - 3.6 mm |
| • Ankle | 4.2 - 5.3 mm |
| • Heel | 5.6 - 6.0 mm |
| **C. Raw material** | |
| | NEOTANE (proprietary polyurethane compound) |
| **D. Density** | |
| | 0.65 - 0.70 g/mL |

| | | |
|---|---|---|
| **E. Tensile strength** | | |
| (incl. lining) | 10 ± 2 N/mm$^2$ | |
| **F. Elongation** | | |
| (incl. lining) | 600 +/- 100% | |
| **G. Hardness** | | |
| | 43 +/- 2 Sh A | |
| **H. Tear strength** | | |
| (incl. lining) N/mm | 10.0 ± 2.0 N/mm | |
| **I. Aging** | | |
| (incl. lining) | **7 days at 70 °C** | **14 days at 70 °C** |
| • Tensile strength | 11.6 MPa | 9.0 MPa |
| • Elongation | 580 ± 20% | 600 ± 20% |
| • Tear strength | 11.4 N/mm | 9.0 N/mm |
| **J. Chemical resistance** | | |
| | see detailed list | |
| **K. Environmental temperature** | | |
| • Maximum | ± 100 °C | |
| • Minimum | Cold insulation down to -30 °C | |

## Pullers

| | |
|---|---|
| **A. Material** | |
| | Synthetic leather |

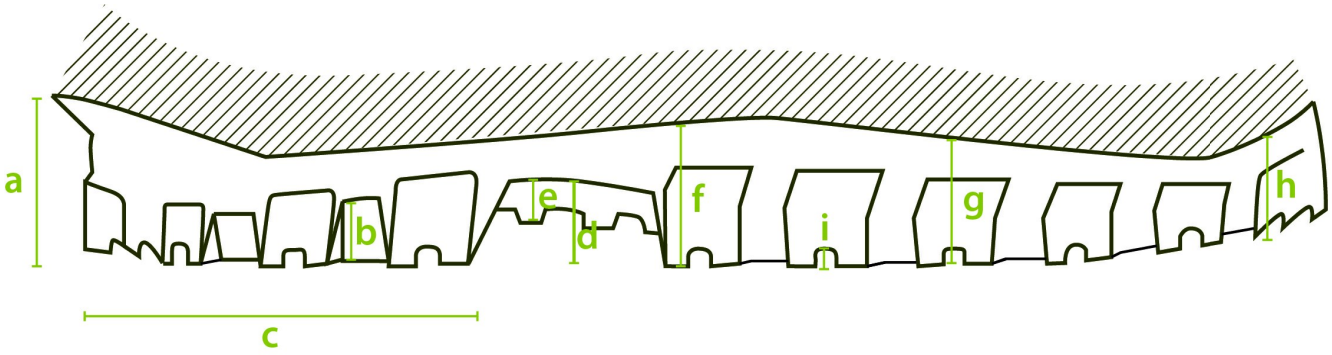
## Binder

| | |
|---|---|
| **A. Material** | |
| | Synthetic leather |

## Lining

| | |
|---|---|
| **A. Material** | |
| | PU coating on polyester fabric |
| **B. Seams** | |
| | Welded and knitted seams |

## Outsole profile




| | | |
|---|---|---|
| **A. Dimensions** | | |
| • Heel | | |
| • Thickness | (a) | 40.5 mm |
| • Profile depth | (b) | 14.6 mm |
| • Length | (c) | 102.8 mm |
| • Width | | 85.8 mm |
| • Middle foot | | |
| • Height | (d) | 16.4 mm |
| • Ladder anti-slip grips | (e) | 4.3 mm |
| • Outsole | | |
| • Thickness | (f) | 33.8 mm |
| | (g) | 30.5 mm |
| | (h) | 22.0 mm |
| • Profile depth | (i) | 9.0 mm |
| **B. Raw material** | | |
| | NEOTANE (proprietary polyurethane compound) | |
| **C. Density** | | |
| | 0.65 - 0.70 g/mL | |
| **D. Mechanical characteristics** | | |
| | See upper (E)-(F)-(H) | |
| **E. Energy absorption of the seat region** | | |
| | 30 J (requirement ≥ 20 J) | |
| **F. Antistatic** | | |
| | dry: $1x10^8$ - $1x10^9$ Ohm | |
| | wet: $1x10^7$ - $1x10^9$ Ohm | |
| **G. Abrasion resistance** | | |
| | 50 $mm^3$ | |
| **H. Hardness** | | |
| | 60 +/- 10 Sh A | |

| | |
|---|---|
| **I. Footwear slip resistance** | |
| | SR |
| **J. Chemical resistance** | |
| | see detailed list |

## Safety

| | Standard | Required | Type | Result |
|---|---|---|---|---|
| **Toe cap & midsole** | | | | |
| Nail penetration resistance | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 | > 1100 N | Metallic | 1280 N |
| Impact resistance (200J) | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 | > 14.0 mm | Metallic | 20.0 mm |
| Impact resistance (125J) | CSA Z195-14 | > 12.7 mm | Metallic | 16.1 mm |
| Impact resistance at -18 °C (125J) | CSA Z195-14 | > 12.7 mm | Metallic | 21.1 mm |
| Compression resistance | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 | > 14.0 mm | Metallic | 22.5 mm |
| Compression resistance | ASTM F2413-24 | > 12.7 mm | Metallic | 23.2 mm |
| Width of toe cap | outer measure: 48.0 mm | | | |
| Height of toe cap | outer measure: 95.0 mm | | | |
| Toe cap | Steel | | | |

## Certificates

| | |
|---|---|
| CE | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024<br>1910405-02-86 |
| UKCA | EN ISO 20345:2011<br>AB0321/19213-01/E00-00 |
| CSA | CSA Z195-14<br>70048629 |
| | ASTM F2413-24<br>70048629 |

## Accessories

| | | |
|---|---|---|
| **Thermo-moulded footbed** | | |
| Two layers | | |
| • Toplayer | woven textile | |
| • Colour | black | |
| • Thickness | 0.70 mm | |
| • Bottom | PU foam | |
| • Colour | black | |
| • Thickness | 3.0 - 7.0 mm | |
| **Washable at 30°C** | | |