# TECHNICAL DATA SHEET
# StepliteX SolidGrip S4 green/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 | ± 61.02 oz |
| **Colors** | |
| |  |
| | green - black |

## Upper

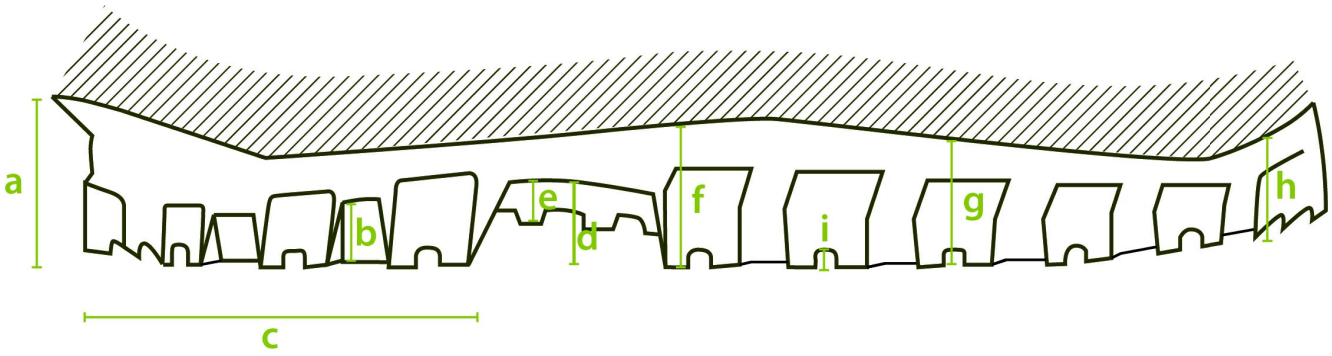
| | |
|---|---|
| **A. Dimensions** | |
| • Height | outer measure: 14.2 - 15.4 in |
| | cutting edge: 10.4 - 11.4 in |
| • Foot length | outer measure: 11.8 in |
| | inner measure: 11.0 in |
| **B. Thickness** | |
| • Upper edge | 0.10 - 0.12 in |
| • Calf | 0.11 - 0.13 in |
| • Shinbone | 0.11 - 0.14 in |
| • Ankle | 0.17 - 0.21 in |
| • Heel | 0.22 - 0.24 in |
| **C. Raw material** | |
| | NEOTANE (proprietary polyurethane compound) |

| | | |
|---|---|---|
| **D. Density** | | |
| | 86.8 - 93.5 oz/gallon | |
| **E. Tensile strength** | | |
| (incl. lining) | 1450 ± 290 psi | |
| **F. Elongation** | | |
| (incl. lining) | 600 +/- 100% | |
| **G. Hardness** | | |
| | 43 +/- 2 Sh A | |
| **H. Tear strength** | | |
| (incl. lining) lbf/in | 57.1 ± 11.4 lb/in | |
| **I. Aging** | | |
| (incl. lining) | **7 days at 158 °F** | **14 days at 158 °F** |
| • Tensile strength | 1682.4 psi | 1305.3 psi |
| • Elongation | 580 ± 20% | 600 ± 20% |
| • Tear strength | 65.1 lb/in | 51.4 lb/in |
| **J. Chemical resistance** | | |
| | see detailed list | |
| **K. Environmental temperature** | | |
| • Maximum | ± 212 °F | |
| • Minimum | Cold insulation down to -22 °F | |

## Lining

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

## Outsole profile




| | | |
|---|---|---|
| **A. Dimensions** | | |
| • Heel | | |
| • Thickness | (a) | 1.6 in |
| • Profile depth | (b) | 0.57 in |
| • Length | (c) | 4.0 in |
| • Width | | 3.4 in |
| • Middle foot | | |
| • Height | (d) | 0.65 in |
| • Ladder anti-slip grips | (e) | 0.17 in |
| • Outsole | | |
| • Thickness | (f) | 1.3 in |
| | (g) | 1.2 in |
| | (h) | 0.87 in |
| • Profile depth | (i) | 0.35 in |
| **B. Raw material** | | |
| | NEOTANE (proprietary polyurethane compound) | |
| **C. Density** | | |
| | 6.5 - 7.0 ppg (imp.) | |
| **D. Mechanical characteristics** | | |
| | See upper (E)-(F)-(H) | |
| **E. Energy absorption of the seat region** | | |
| | 30-40 J (requirement ≥ 20 J) | |
| **F. Antistatic** | | |
| | dry: $1x10^8$ - $1x10^9$ Ohm | |
| | wet: $1x10^7$ - $1x10^9$ Ohm | |

| | |
|---|---|
| **G. Abrasion resistance** | |
| | 0.0031 $in^3$ |
| **H. Hardness** | |
| | 60 +/- 10 Sh A |
| **I. Footwear slip resistance** | |
| | SRC |
| **J. Chemical resistance** | |
| | see detailed list |

## Safety

| | Standard | Required | Type | Result |
|---|---|---|---|---|
| **Toe cap** | | | | |
| Impact resistance (200J) | EN ISO 20345:2011 | > 0.55 in | Metallic | 0.81 in |
| Impact resistance (125J)) | CSA Z195-14 | > 0.50 in | Metallic | 0.52 in |
| Impact resistance at -0.4 °F (125J) | CSA Z195-14 | > 0.50 in | Metallic | 0.68 in |
| Compression resistance | EN ISO 20345:2011 | > 0.55 in | Metallic | 0.81 in |
| Compression resistance | ASTM F2413-18 | > 0.50 in | Metallic | 0.96 in |
| Width of toe cap | outer measure: 1.9 in | | | |
| Height of toe cap | outer measure: 3.7 in | | | |
| Toe cap | Steel | | | |

## Certificates

| | |
|---|---|
| CE | EN ISO 20345:2011<br>2004193-02-86 |
| UKCA | EN ISO 20345:2011<br>AB0321/19218-02/E00-00 |
| CSA | CSA Z195-14<br>70048629 |
| ASTM INTERNATIONAL | ASTM F2413-18<br>70048629 |
| Australian Standard | AS 2210.3:2019<br>SMKH21341 |

## Accessories

| Thermo-moulded footbed | | |
|---|---|---|
| Two layers | | |
| • Toplayer | woven textile |  |
| • Color | black | |
| • Thickness | 0.03 in | |
| • Bottom | PU foam | |
| • Color | black | |
| • Thickness | 0.12 - 0.28 in | |
| **Washable at 86 °F** | | |