




# TECHNICAL DATA SHEET

## StepliteX SolidGrip S5 non-metallic black/black

### General information

| Size range   |            |
|--|------------|
| • EU   | 37 - 48    |
| • UK   | 4 - 13     |
| • US   | 5 - 15     |
| The testresults in this technical datasheet are performed on size EU 42, UK 8, US 9. |            |
| Weight / pair  |            |
| • Safety level: Non-metallic toe cap & midsole                                       | ± 71.25 oz |
| Colors   |            |
|    |            |
| black - black  |            |

### Upper

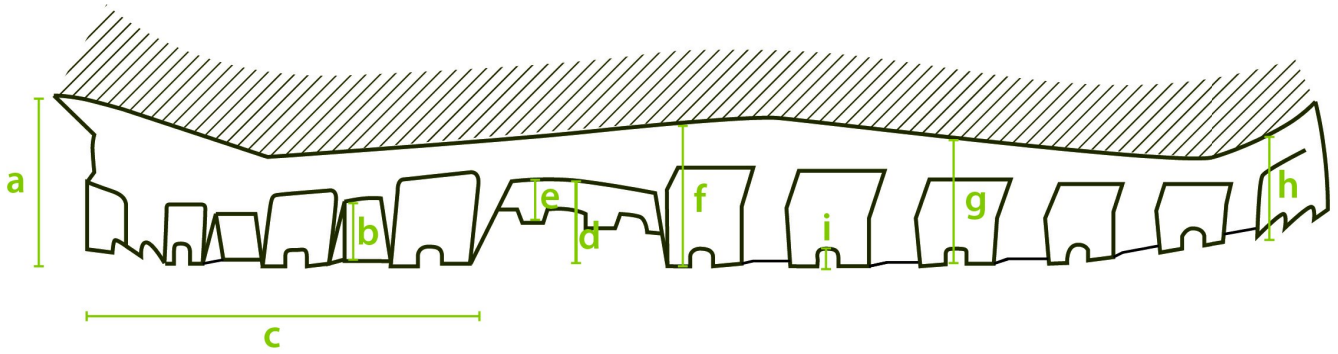
| A. Dimensions   |   |
|-----------------|---|
| • Height        | outer measure: 14.4 - 15.6 in               |
|                 | cutting edge: 10.6 - 11.6 in                |
| • Foot length   | outer measure: 12.2 in                      |
|                 | inner measure: 11.0 in                      |
| 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                       |

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

## Lining

| <b>A. Material</b> |                                |
|--------------------|--------------------------------|
|                    | PU coating on polyester fabric |
| <b>B. Seams</b>    |                                |
|                    | 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) | 1.4 in  |
|                          | (g) | 1.3 in  |
|                          | (h) | 0.98 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

35 J (requirement  $\geq 20$  J)

### F. Antistatic

dry:  $1 \times 10^8$  -  $1 \times 10^9$  Ohm

wet:  $1 \times 10^7$  -  $1 \times 10^9$  Ohm

### G. Abrasion resistance

0.0031 in<sup>3</sup>

### H. Hardness





60 +/- 10 Sh A

|                                    |                   |
|------------------------------------|-------------------|
| <b>I. Footwear slip resistance</b> |                   |
|                                    | SR                |
| <b>J. Chemical resistance</b>      |                   |
|                                    | see detailed list |

## Safety

|                                     | Standard  | Required  | Type         | Result  |
|-------------------------------------|---|-----------|--------------|---------|
| <b>Toe cap &amp; midsole</b>        |   |           |              |         |
| Nail penetration resistance         | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 | > 1100 N  | Non-metallic | 1100 N  |
| Impact resistance (200J)            | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 | > 0.55 in | Non-metallic | 0.67 in |
| Impact resistance (125J)            | CSA Z195-14   | > 0.50 in | Non-metallic | 0.85 in |
| Impact resistance at -0.4 °F (125J) | CSA Z195-14   | > 0.50 in | Non-metallic | 0.95 in |
| Compression resistance              | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 | > 0.55 in | Non-metallic | 0.79 in |
| Compression resistance              | ASTM F2413-18                                       | > 0.50 in | Non-metallic | 0.91 in |
| Width of toe cap                    | outer measure: 1.9 in                               |           |              |         |
| Height of toe cap                   | outer measure: 3.7 in                               |           |              |         |
| Toe cap                             | Composite material such as fiberglass               |           |              |         |

## Certificates

|  |  |
|--|--|
|  | EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024<br>2501605-02-86 |
|  | EN ISO 20345:2011<br>AB0321/19220-01/E00-00                          |
|  | CSA Z195-14<br>70048629  |
|  | ASTM F2413-18<br>70048629  |
|  | 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**