



# TECHNICAL DATA SHEET

## StepliteX SolidGrip S4 blue/blue

### 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                                                                               |            |
|    |            |
| blue - blue                                                                          |            |

### Upper

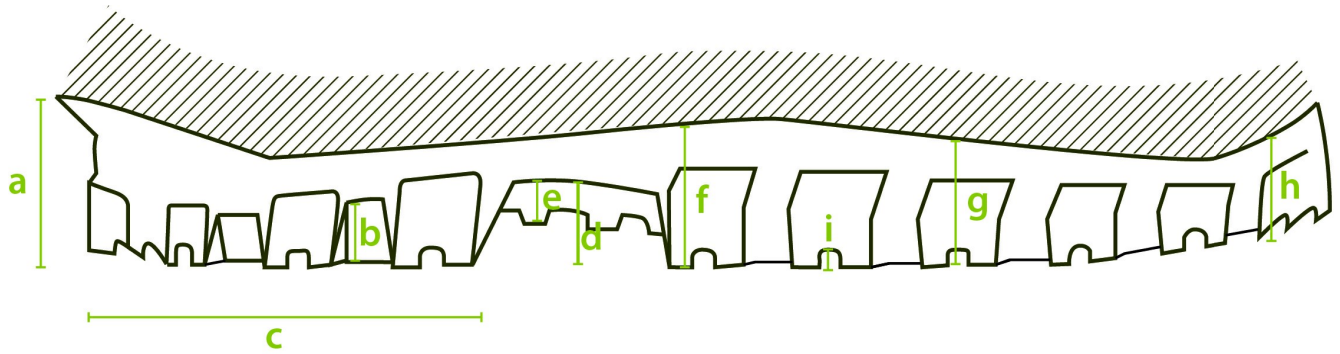
| A. Dimensions   |                                             |
|-----------------|---------------------------------------------|
| • Height        | outer measure: 14.2 - 15.4 in               |
|                 | cutting edge: 10.4 - 11.4 in                |
| • Foot length   | outer measure: 11.8 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       |                                   |                   |
|                              | <a href="#">see detailed list</a> |                   |
| K. Environmental temperature |                                   |                   |
| • 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) | 1.3 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 $\geq 20$ 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                    |
| I. Footwear slip resistance |                                   |
|                             | SRC                               |
| J. Chemical resistance      |                                   |
|                             | <a href="#">see detailed list</a> |

## Safety

|                                     | Standard              | Required  | Type     | Result  |
|-------------------------------------|-----------------------|-----------|----------|---------|
| <b>Toe cap</b>                      |                       |           |          |         |
| 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

|                                                                                    |                                             |
|------------------------------------------------------------------------------------|---------------------------------------------|
|  | EN ISO 20345:2011<br>2004193-02-86          |
|  | EN ISO 20345:2011<br>AB0321/19218-02/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