




# 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

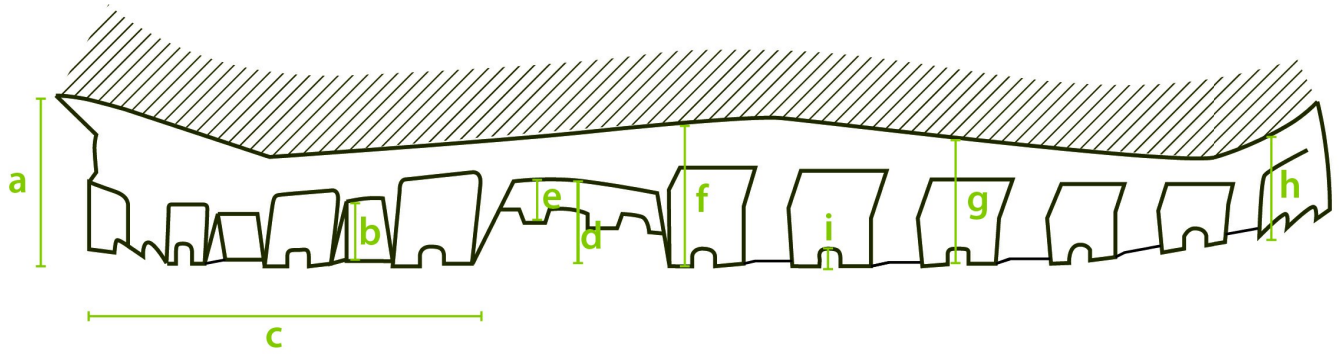
A. Dimensions	
• Height	outer measure: 14.4 - 15.6 in
	cutting edge: 10.6 - 11.6 in
• Foot length	outer measure: 12.2 in
	inner measure: 11.0 in
B. Thickness	
• Upper edge	0.10 - 0.12 in
• Calf	0.11 - 0.13 in
• Shinbone	0.11 - 0.14 in
• Ankle	0.17 - 0.21 in
• Heel	0.22 - 0.24 in
C. Raw material	
	NEOTANE (proprietary polyurethane compound)
D. Density	
	86.8 - 93.5 oz/gal (U.S.)

<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 lbf/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 lbf/in	51.4 lbf/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 F2413-24	> 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 2501605-02-86
	EN ISO 20345:2011 AB0321/19220-01/E00-00
	CSA Z195-14 70048629
	ASTM F2413-24 70048629
	AS 2210.3:2019 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**