




# TECHNICAL DATA SHEET

## StepliteX SolidGrip S5 yellow/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	± 1 860 g
Colours	
	
yellow - black	

### Upper

A. Dimensions	
• Height	outer measure: 36.0 - 39.0 cm
	cutting edge: 26.5 - 29.0 cm
• Foot length	outer measure: 30.0 cm
	inner measure: 28.0 cm
B. Thickness	
• Upper edge	2.6 - 3.1 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

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

## 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)	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

30-40 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

50 mm<sup>3</sup>

### H. Hardness




60 +/- 10 Sh A

<b>I. Footwear slip resistance</b>	
	SR
<b>J. Chemical resistance</b>	
	<a href="#">see detailed list</a>


## 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	Metallic	1280 N
Impact resistance (200J)	EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024	> 14.0 mm	Metallic	22.0 mm
Impact resistance (125J)	CSA Z195-14	> 12.7 mm	Metallic	18.1 mm
Impact resistance at -18 °C (125J)	CSA Z195-14	> 12.7 mm	Metallic	22.2 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

	EN ISO 20344:2022+A1:2024 EN ISO 20345:2022+A1:2024 2410090-02-86
	EN ISO 20345:2011 AB0321/19219-01/E00-00
	CSA Z195-14 70048629
	ASTM F2413-24 70048629

## Accessories

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

