



TECHNICAL DATA SHEET
BEKINA® BOOTS StepliteX SOLIDGRIP®

BEKINA® BOOTS

Size range		
• EU	36 - 49	
• UK	3.5 - 14	
• US	4 - 16	
The testresults in this technical datasheet are performed on size EU 42, UK 8, US 9		
Weight / pair		
• Non-safety	± 510 g	
• Steel toe cap	± 730 g	
• Steel toe cap & midsole	± 860 g	
Colours		
• Non-safety	• Steel toe cap	• Steel toe cap & midsole
		
green - black	green - black white - blue	green - black yellow - black

Upper

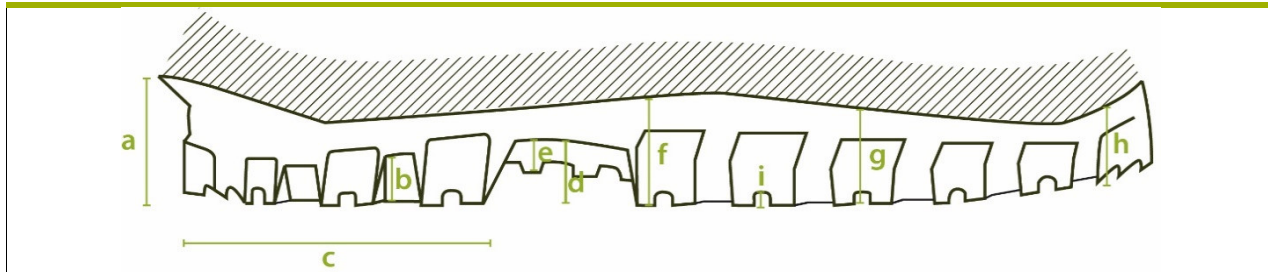
A. Dimensions		
• Height	outer measure: 36,0 - 39,0 cm	
	cutting edge: 26,5 - 29,0 cm	
• Foot length	outer measure: 30,0 cm	
	inner measure: 28,0 cm	
B. Thickness		
• Upper edge	2,6 - 3,1 mm	
• Calf	2,8 - 3,4 mm	
• Shinbone	2,8 - 3,6 mm	
• Ankle	4,2 - 5,3 mm	
• Heel	5,6 - 6,0 mm	
C. Raw material		
	NEOTANE® (proprietary polyurethane compound)	
D. Density		
	0,65 - 0,70 g/ml	
E. Tensile strength		
(incl. lining)	10 ± 2 N/mm ²	
F. Elongation		
(incl. lining)	600 ± 100 %	
G. Hardness		
	43 ± 2 Sh A	
H. Tear strength		
(incl. lining)	10 ± 2 N/mm	
I. Aging		
(incl. lining)	7 days at 70°	14 days at 70°
• Tensile strength	11,6 Mpa	9,0 Mpa
• Elongation	580 ± 20 %	600 ± 20 %
• Tear strength	11,4 N/mm	9,0 N/mm

J. Chemical resistance	
	see detailed list
K. Environmental temperature	
• Maximum	± 100 °C
• Minimum	Cold insulation down to - 30 °C

Lining

A. Material	
	PU coating on polyester fabric
B. Seams	
	knitted and welded 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 ≥ 20 J)
F. Antistatic footwear		
		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 ³



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H. Hardness	
	60 ± 10 Sh A
I. Footwear slip resistance	
	SRC
J. Chemical resistance	
	see enclosed list

Safety

	Standard	Required	Type	Result
Toe cap				
Impact resistance (200 J)	ISO 20345:2011	> 14 mm	Metallic	20,5 mm
Impact resistance (125 J)	CSA Z195-14	> 12,7 mm	Metallic	13,2 mm
Impact resistance at -18°C (125 J)	CSA Z195-14	> 12,7 mm	Metallic	17,3 mm
Compression resistance	ISO 20345:2011	> 14 mm	Metallic	19,5 mm
Compression resistance	ASTM F2413-18	> 12,7 mm	Metallic	24,3 mm
Toe cap & midsole				
Nail penetration resistance	ISO 20345:2011	> 1100 N	Metallic	1280 N
Impact resistance (200 J)	ISO 20345:2011	> 14 mm	Metallic	22,0 mm
Impact resistance (125 J)	CSA Z195-14	> 12,7 mm	Metallic	18,1 mm
Impact resistance at -18°C (125 J)	CSA Z195-14	> 12,7 mm	Metallic	22,2 mm
Compression resistance	ISO 20345:2011	> 14 mm	Metallic	22,5 mm
Compression resistance	ASTM F2413-18	> 12,7 mm	Metallic	23,2 mm
Width of steel toe cap	outer measure: 95,0 mm			
Height of steel toe cap	outer measure: 48,0 mm			

Certificates

• Non-safety	• Steel toe cap		• Steel toe cap & midsole	
 green - black	 green - black	 white - blue	 green - black	 yellow - black
ISO 20347:2012 PFI 2004289-02-86	ISO 20345:2011 PFI 2004193-02-86	ISO 20345:2011 PFI 2004193-02-86	ISO 20345:2011 PFI 1910418-02-86	ISO 20345:2011 PFI 1910418-02-86
	CSA Z195-14 CSA Group 70048629	CSA Z195-14 CSA Group 70048629	CSA Z195-14 CSA Group 70048629	CSA Z195-14 CSA Group 70048629
	ASTM F2413-18 CSA Group 70048629	ASTM F2413-18 CSA Group 70048629	ASTM F2413-18 CSA Group 70048629	ASTM F2413-18 CSA Group 70048629
	AS 2210.3:2019 Sai Global SMKH21341	AS 2210.3:2019 Sai Global SMKH21341	AS 2210.3:2019 Sai Global SMKH21341	



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Accessories

Thermo-moulded footbed	
Two layers	
• Toplayer	woven textile
• Colour	green
• Thickness	0,7 mm
• Bottom	PU foam
• Colour	black
• Thickness	3,0 - 7,0 mm
Washable at 30°C	

