



TECHNICAL DATA SHEET **BEKINA® BOOTS StepliteX THERMOPROTEC®**

BEKINA® BOOTS

Size range		
• EU	37 - 48	
• UK	4 - 13	
• US	5 - 15	
The testresults in this technical data sheet are performed on size EU 42, UK 8, US 9		
Weight / pair		
• non-metallic toe cap	± 1980 g	
• non-metallic toe cap & midsole	± 2120 g	
Colours		
	• Non-metallic toe cap	• Non-metallic toe cap & midsole
		 
	white - blue	green - black orange - blue

Upper

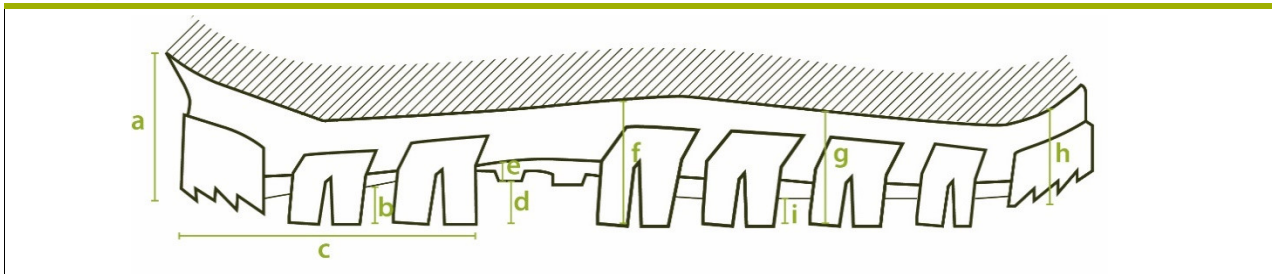
A. Dimensions		
• Height	outer measure: 36,5 - 39,5 cm	
	cutting edge: 27,0 - 29,5 cm	
• Foot length	outer measure: 30,6 cm	
	inner measure: 28,0 cm	
B. Thickness		
• Upper edge	2,6 - 3,1 mm	
• Calf	2,8 - 3,4 mm	
• Shinbone	2,8 - 3,6 mm	
• Ankle	4,2 - 5,3 mm	
• Heel	5,6 - 6,0 mm	
C. Raw material		
	NEOTANE® (proprietary polyurethane compound)	
D. Density		
	0,65 - 0,70 g/ml	
E. Tensile strength		
(incl. lining)	10 ± 2 N/mm²	
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 strenght	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 - 40 °C

Lining

A. Material	
	PU coating on polyester fabric
B. Seams	
	welded and knitted seams

Outsole profile



A. Dimensions		
• Heel		
• Thickness	(a)	47,3 mm
• Profile depth	(b)	12,6 mm
• Length	(c)	102,9 mm
• Width		87,3 mm
• Middle foot		
• Height	(d)	15,8 mm
• Ladder anti-slip grips	(e)	5,8 mm
• Outsole		
• Thickness	(f)	43,1 mm
	(g)	33,7 mm
	(h)	26,0 mm
• Profile depth	(i)	6,7 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		
	40 - 50 J (requirement ≥ 20 J)	
F. Antistatic footwear		
	dry: 1×10^8 - 1×10^9 Ohm	
	wet: 1×10^7 - 1×10^9 Ohm	
G. Abrasion resistance		
	50 mm ³	
H. Hardness		
	60 ± 10 Sh A	



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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	Non-metallic	16,0 mm
Impact resistance (125 J)	CSA Z195-14	> 12,7 mm	Non-metallic	20,6 mm
Impact resistance at -18°C (125 J)	CSA Z195-14	> 12,7 mm	Non-metallic	29,4 mm
Compression resistance	ISO 20345:2011	> 14 mm	Non-metallic	19,0 mm
Compression resistance	ASTM F2413-18	> 12,7 mm	Non-metallic	21,7 mm
Toe cap & midsole				
Nail penetration resistance	ISO 20345:2011	> 1100 N	Non-metallic	> 1100 N
Impact resistance (200 J)	ISO 20345:2011	> 14 mm	Non-metallic	14,0 mm
Impact resistance (125 J)	CSA Z195-14	> 12,7 mm	Non-metallic	21,5 mm
Impact resistance at -18°C (125 J)	CSA Z195-14	> 12,7 mm	Non-metallic	28,1 mm
Compression resistance	ISO 20345:2011	> 14 mm	Non-metallic	18,0 mm
Compression resistance	ASTM F2413-18	> 12,7 mm	Non-metallic	20,8 mm
Width of toe cap	95,0 mm			
Height of toe cap	48,0 mm			
Toe cap	composite material such as fiberglass			

Certificates

• Non-metallic toe cap	• Non-metallic toe cap & midsole	
		
white - blue	green - black	orange - blue
ISO 20345:2011 PFI 2004188-02-86	ISO 20345:2011 PFI 1908037-02-86	ISO 20345:2011 PFI 1908037-02-86
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

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		