



Technical Information



Challenger

Challenger S

for:

- BCA - Non-Safety Boot
- BCS - S5 Full Safety Boot

General

Size range
• EU 41, 42, 43, 44, 45, 46, 47
• UK 7, 8, 9, 10, 10½, 11, 12

Weight per boot (size 9)
• BCA +/- 760g
• BCS +/- 930g

Colour
• Green



Leg

Dimension	
• Height	Outer measure: 39cm
	Cutting edge: 31cm
• Foot length	Outer measure: 29.5cm
	Inner measure: 28cm

Thickness	
• Upper edge	2.5 - 3.3mm
• Calf	2.5 - 4.9mm
• Shin	2.6 - 3.9mm
• Ankle	4.1 - 7.7mm
• Heel	4.1 - 8.5mm
• Toe	4.5 - 7.9mm

Raw Material
Polyurethane

Specific weight
650 - 700g

Tensile strength
(incl lining) 10.5MPa (1522 psi)

Elongation
(incl lining) 550% +/- 20%

Hardness
42 - 47 Shore A

Tear strength
9.7N/mm

Environmental temperature
• Maximum +/- 100°C
• Minimum - 30°C (Thermal insulating)

Insoles

Information	
• Bottom	Micro cellular latex
- Thickness	0.5mm
- Shape	Dots
• Upper	Micro cellular latex
- Thickness	4.25mm

Lining

Material	
• PU coating on tricot	
Seams	
Font, middle + sole	Knitted seams

Slip Resistance for BCA and BCS = SRC

Test	Description	Image	Explanation	Coefficient of Friction
SRA	Test with soap on ceramic tile floor		Forward slip of heel	>0.28
			Forward slip of flat boot	>0.32
SRB	Test with glycerine on steel floor		Forward slip of heel	>0.13
			Forward slip of flat boot	>0.18
SRC	SRA and SRB		Footwear compliant to SRA and SRB standards	



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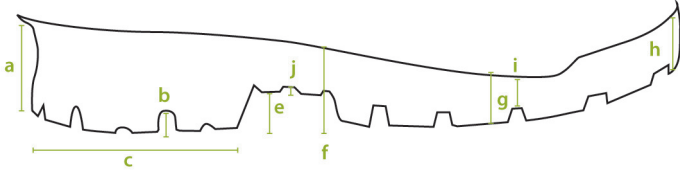
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Sole



Dimension	
• Heel	
- Thickness	(a) 42.2mm
- Profile depth	(b) 7.7mm
- Length	(c) 84.1mm
- Width	79.2mm
• Middle foot	
- Height	(e) 8.5mm
- Ladder anti-slip grips	(j) 2.5mm
• Sole	
- Thickness	(f) 33.2mm
	(g) 26.1mm
	(h) 24.1mm
- Profile depth	(i) 8.2mm

Raw Material	
	Polyurethane

Specific weight	
	650 - 700g

Tensile strength	
(incl lining)	10.5MPa (1522 psi)

Elongation	
(incl lining)	550% +/- 20%

Tear strength	
	9.7N/mm

Energy	
• Absorption of the heel	25 - 35

Abrasion	
(mm ³ loss)	100 +/-10

Antistatic	
• Dry	2.2x10 ⁸ Ohm
• Wet	4x10 ⁷ Ohm

Hardness	
	55 - 60 Shore A

BCS Safety (S5) Only

Steel toecap and midsole	Required Standard	Test Results
• Penetration resistance of sole (CSA Z195-14)	1.2kN	1.4kN
• Impact resistance on steel toecap (ASTM F2413-11 and CSA Z195-14)	12.7mm	23mm
• Compression resistance of steel toecap (ASTM F2413-11)	12.7mm	28.6mm
• Width of steel toecap	88.mm	
• Height of steel toecap	47mm	



BCS42G S5 Safety Boot