

TECHNICAL SHEET

Article: B1611 T-MASSIVE

Norm: EN ISO 20345:2022

Safety Class: S3S HRO CI HI LG SC FO SR

Sole	S60 BLACK
Weight, size 42:	840 g
Footwear height:	190 mm
Width:	12
Construction / Sole:	STROBEL; double density PU/Rubber injected outsole
Anti-perforation insert	Fortrex Insert
Insole:	Non-woven fabric
Footbed supplied:	Dry'n Air Omnia
Other usable Footbeds (certified):	Dry'n Air Gel; Dry'n Air Scan&Fit Omnia; Secosol; Secosol Complete; Secosol Dynamic



Entire footwear: protections

Component	Description	Value	Minimum Requirement	Norm
SlimCap toe-cap	Impact Resistance (200J)	15,0 mm	≥ 14,0 mm	5.3.2.3
	Compression Resistance (15 kN)	15,5 mm	≥ 14,0 mm	5.3.2.4
Outsole (SR)	Slip Resistance 20345:2022			
	•Ceramic + Det. - Hill	0,47	≥ 0,31	5.3.5.2
	•Ceramic + Det. + Tip	0,38	≥ 0,36	5.3.5.2
	•Ceramic + Glycerin (SR) - Hill	0,31	≥ 0,19	6.2.10.1
	•Ceramic + Glycerin (SR) - Tip	0,25	≥ 0,22	6.2.10.1
Outsole (SRC)	Slip resistance 20345:2011			
	•SRA – Hill (angle of 7°)	0,45	≥ 0,28	5.3.5.2
	•SRA – sole (full sole)	0,50	≥ 0,32	5.3.5.2
	•SRB – Hill (angle of 7°)	0,20	≥ 0,13	5.3.5.3
	•SRB – Sole (Full sole)	0,26	≥ 0,18	5.3.5.3
Fortrex	Puncture resistance 20345:2011			6.2.1.1.1
Fortrex (PS)	Puncture resistance 20345:2022	1418 N	Valor medio ≥ 1100N; Ogni singolo valore ≥ 950N	6.2.1.1.4
Footwear with insole (A)	Antistatic properties			
	• Electrical resistance		≥ 10 ⁵ Ω, ≤ 10 ⁹ Ω	6.2.2.2
Thermal insulation	• Insole Temp. Increase (HI)	11,0 °C	≤ 22 °C	6.2.3.1
	• Decreased Insole Temp. (CI)	6,0 °C	≤ 10 °C	6.2.3.2
Energy absorption (E)	Shock-absorption in the heel region	30 J	≥ 20 J	6.2.4
(SC)	•Abrasion resistance of the toe cover	Conforme	Dopo 8000 cicli, lo SC non deve presentare fori.	6.2.9

Upper

Materials	Description	Value	Minimum Requirement	Norm
Full grain waxy leather	Tear resistance	216 N	≥ 120 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm ²	5.4.4
	Water steam permeability	1,8 mg/cm ² h	≥ 0,8 mg/cm ² h	5.4.6
	Water steam coefficient	17,4 mg/cm ²	≥ 15mg/cm ²	5.4.6
	Chromium VI content (if leather)			6.11
	Water passed	0,0 g	≤ 0,2 g	6.3
	Water absorption	21 %	≤ 30%	6.3

Lining

Materials	Description	Value	Minimum Requirement	Norm
Hi-tech 3D fabric	Tear resistance	47 N	≥ 15 N	5.5.1
	Abrasion resistance			5.5.2
				5.5.2
	Water steam permeability	21,1 mg/cm ² h	≥ 2,0 mg/cm ² h	5.5.3
	Chromium VI content (if leather)	N/A		5.5.5

Sole

Materials	Description	Value	Minimum Requirement	Norm
Double Density Sole	Profile height	5,1 mm	≥ 2,5 mm	5.8.1.3
	Tear resistance	10,8 kN/m	≥ 8 kN/m	5.8.2
	Abrasion resistance	128 mm ³	≤ 150 mm ³	5.8.3
	Notches increase after 30.000 cycles	1,9 mm	≤ 4,0 mm	5.8.4
	Notches increase after 150.00 cycles (hydrolysis)	3,2 mm	≤ 6,0 mm	5.8.5
	Tread- Midsole detachment	4,3 * N/mm		5.8.6
	HRO Contact heat resistance (300°C)			6.4.1
	FO Fuel resistance (volume changes)	9 %	≤ 12%	6.4.2
	(LG) Geometrical Prescriptions 20345:2022			6.4.3

Issued by: Innovation Director Ing. Cataldo De Luca

Signature



The content of this technical sheet is copyright of BASE PROTECTION Unipersonale Srl. Reproduction, even partial, of texts and / or images presented here is expressly forbidden.

Technical sheet subject to revision at the same time as the certificate is issued. Typographical errors excepted. BASE PROTECTION reserves the right to modify the content of the technical sheet.