



**Prod. Ref.** FW230-000  
**Safety cat.** S3 SRC  
**Range of sizes** 36 - 48 (3 - 13)  
**Weight** (sz. 8) 640 g  
**Shape** B  
**Wide** 11

**Description:** Black water repellent printed leather ankle boot, **Sany-Dry** lining, anti-shock, antistatic, slipping resistant, non metallic **APT Plate** midsole **Zero Perforation**.

**Plus:** Footbed **AIR** made of EVA and fabric, antistatic, it guarantees high stability thanks to its different thicknesses in the plantar area. Dual density PU with an aggressive style. The prominent toe cap and heel area protect the upper from wearing and abrasion. Padded collar, bellows tongue. Provided with **SCATTO** quick release system.

**Suggested uses:** Engineering jobs, maintenance jobs, buildings, industries.

**Care and maintenance:** Clean after each use and dry off away from direct heat; treat the leather with a suitable shoe-polish. Avoid contact with aggressive chemicals or extreme temperature. Avoid immersion in sea water, lime water or cement mixed with water.

## MATERIALS / ACCESSORIES

**Complete shoe** **Toe cap:** non metallic fiber glass toe cap, impact resistant until 200 J and compression resistant until 1500 kg

**Anti perforation midsole:** in multi-layers highly tensile fabric, penetration resistant, **Zero Perforation**

**Antistatic shoe:** the bottom is fit for the dissipation of electrostatic charges

**Energy absorption system:** polyurethane low density and heel profile

**Upper** Black water repellent printed leather  
Thickness 1,6/1,8 mm

**Vamp** Felt, breathable, colour dark grey  
**lining** Thickness 1,2 mm

**Quarter** **Sany-Dry**, breathable, abrasion resistant, colour black  
**lining** thickness 1,2 mm

**Sole** Antistatic dual-density Polyurethane directly injected in the upper:  
Outsole: black, high density, slipping resistant, abrasion resistant and hydrocarbons resistant,  
Midsole: black, low density, comfortable and anti-shock  
Adherence coefficient of the sole

Distributed by:



## SAFETY TECHNICAL SPECIFICATIONS

	Clause EN ISO 20345:2011	Description	Unit	Cofra result	requirement
<b>Complete shoe</b>	5.3.2.3	Shock resistance (clearance after shock)	mm	16	≤ 14
	5.3.2.4	Compression resistance (clearance after compression)	mm	15	≤ 14
<b>Anti perforation midsole:</b>	6.2.1	Penetration resistance	N	To 1100 N No Perforation	≤ 1100
	6.2.2.2	Electric resistance			
<b>Antistatic shoe:</b>		- wet	M <sub>Ω</sub>	120	≤ 0,1
		- dry	M <sub>Ω</sub>	820	↑ 1000
<b>Energy absorption system:</b>	6.2.4	Shock absorption	J	> 34	≤ 20
	5.4.6	Water vapour permeability	mg/cmq h	> 2,2	≤ 0,8
<b>Upper</b>		Permeability coefficient	mg/cmq	> 26,1	> 15
	6.3.1	Water resistance	minutes	> 60	> 60
<b>Vamp</b>	5.5.3	Water vapour permeability	mg/cmq h	> 5,2	≤ 2
		Permeability coefficient	mg/cmq	> 42,2	≤ 20
<b>Quarter</b>	5.5.3	Water vapour permeability	mg/cmq h	> 12,1	≤ 2
		Permeability coefficient	mg/cmq	> 169,3	≤ 20
<b>lining</b>	5.8.3	Abrasion resistance (lost volume)	mm <sup>3</sup>	67	↑ 150
	5.8.4	Flexing resistance (cut increase)	mm	3	↑ 4
<b>Quarter</b>	5.8.5	Interlayer bond strength	N/mm	> 5	≤ 4
	6.4.2	Hydrocarbons resistance ( *√ = volume increase)	%	0,8	↑ 12
<b>lining</b>	5.3.5	SRA : ceramic + detergent solution – flat		0,43	≤ 0,32
		SRA : ceramic + detergent solution – heel (contact angle 7°)		0,40	≤ 0,28
<b>Sole</b>		SRB : steel + glycerol – flat		0,20	≤ 0,18
		SRB : steel + glycerol – heel (contact angle 7°)		0,15	≤ 0,13