

Technical specifications structural fire-fighting boot style 953951

General Description

The structural firefighting boot style 953951 is a safety footwear in conformity with EN 15090:2012 F2A CI AN HI₃ SRC. It is certified as 3rd category PPE.



The upper is made of: one piece vamp, linked to a 2 quarters by means of a triple stitching; a back stripe joined by triple seam to the vamp and the quarters; two lateral hangers for easier donning.

The boot height as measured from the heel base to the collar top is 300 mm +3%, in size 42. (all other sizes develop total height harmonically).

Waterproof and breathable abrasion resistance lining with taped seams.

Anatomical foot-bed, made of antistatic material (3mm width) and an antistatic nitrile rubber sole with an anti-perforation non metallic insert cemented into it.

The footwear is assembled by thermoplastic; the sole is glued to the upper by AGO technique.

Range of sizes available: 36 - 48

Weight of the boot in size 41 (1.050 gr./ piece, 2.100

gr. per pair)

Including safety toe cap and antipenetration insert .

Composition

The footwear is composed of the following parts:

1. Upper
2. lining
3. Antistatic device
4. Heel counter
5. Toe-cap
6. Foot-bed
7. anatomical plantar
8. sole
9. Yarns and accessories

Upper

Cow leather, black colour, aniline dyed; chrome tanned, waterproof treated 60 min.
Thickness mm 2.0-2.2

Vamp

Same quality as the upper, joined to the quarters by double stitching.

Quarters

Same leather as the upper

Bovine leather features

Full grain veal leather mm 2.0-2.2 thick
Resistance to tear: (EN 344 4.4.2):>120N
Tensile strength (UNI ISO 3376):≥18N/mm²
Breaking strength (UNI ISO 3376) ≥ 50%
Dynamic waterproofness (UNI 8425) and (EN344 4.4.5)
Water penetration time: > 60 min.
Water absorption time after 60': < 30%
Water vapour permeability (EN 344 5.13) : > 4.0mg/cm² h
Water vapour coefficient (EN 3445.13): > 20/mg/cm²
PH (UNI ISO 4045) and (EN 344 4.4.7) : > 3.5

Lining

Functional layer waterproof and breathable; it is composed of 4 different layers, joined together by special glue points, to allow the foot to transpire. Outer material (in contact with the foot): non- woven fabric highly resistant to abrasion
Breathable and waterproof membrane
On the lining back part a leather stripe is sewn in order to protect it from abrasion. All seams are taped.

Lining composition

Outer material: non-woven 100% polyamide
Backing: 100% PES felt
Breathable and waterproof membrane in hydrophilic PES
Backing in monofilament 100% polyamide knitted fabric
Total lining weight: 360gr/m² +/- 20
Lining thickness: mm² +/-0.3
Resistance to tear (EN 344 4.5.2):>20N
Resistance to abrasion (EN 344 4.5.3): no perforation after 25,600 cycles with dry sample and after 12,800 cycles with wet sample.
Permeability to water steam: (Ret) (ISO 11092):<200 10³ m² mbar/watt
Coefficient to water steam in 8h (EN 344 4.5.4):>30mg/cm²

Heel counter

It is made up of non-woven fabric, mm. 2,1 thickness, with thermal cohesive resins. It is thermal shaped, so as to assure an anatomic heel and it is inserted between the lining and the upper at the back of the boot, so as to increase the comfort. To protect the membrane, there is a soft-rubber stripe along the perimeter of the reinforced heel.

Toe-cap

It is made of steel; it is asymmetrical, with supporting base and treated against rust.

Overcap

Made in heat and fire resistant rubber thickness 1 mm.

Footbed

Anatomic, anti-static material, 2.5 mm thick.

Anatomic removable plantar

The footwear is provided with an inner plantar; it is anti-static, against sweating, removable and washable. Shock absorber device rubber in the heel area.

Anti-static device

Anti-static device composed of the following elements:
zig-zag sewing (55mm long) made up of anti-static yarn.
waterproof and anti-static insert (dimensions 85mmx40mm)

Sole

It is made up of anti-skid rubber. The rubber is heat and fire resistant, with high content of acrylonitril and antistatic. It has long durability with shock absorption properties in the heel area. The shape of the tread and cleats prevents mud and little rocks from being kept. The heel is made lighter thanks to some quadrangular hollows, on the internal surface. An anti-perforation insert is cemented into the sole.
Sole thickness (cleats excluded) is 7 mm. and cleats thickness is 5 mm. (total thickness 12 mm.)

Yarns

All sewings are made of para aramide thread, red colour.

Laces

PES yarn, black colour, 220 mm long.

<p>3rd category PPE, EC marked according to Law Decree 475 dated 04/12/1992 in compliance with European Directive 89/686/CEE. In conformity with EN 15090:2012 F2A AN CI HI3 SRC</p>
