

## TECHNICAL SHEET



Article:	<b>B0167 PIGALLE</b>
Norm:	<b>EN ISO 20345:2012</b>
Safety Class:	<b>S3 SRC</b>
Footwear height:	<b>Mod. B, H 138 mm (≥ 113 mm, Rif. EN 20345-5.2.2)</b>
Width:	<b>11</b>
Construction:	<b>STROBEL; PU SOLE</b>
Cleaning and maintenance:	Use only soft brushes and water. Do not use substances such as alcohol, thinners, gasoline, oil or any other chemicals. Keep the footwear, dry and clean, in a proper place at room temperature.
Suggested fields:	<b>Agriculture, mechanics, construction, shipbuilding, light industry, logistics, handcraft.</b>

Entire footwear: protections				
Component	Description	Value	Norm Requirements	EN 20345
Steel	Impact resistance(200 J)			
Toe-cap	<ul style="list-style-type: none"> <li>Free height after impact</li> </ul>	14,5 mm	≥ 14 mm	5.3.2.3
	<ul style="list-style-type: none"> <li>Compression resistance (15 kN)</li> <li>Free height after compression</li> </ul>	15 mm	≥ 14 mm	5.3.2.4
Sole (SRC)	Slip resistance			
	<ul style="list-style-type: none"> <li>SRA – Sole (entire sole)</li> </ul>	0,42	≥ 0,32	5.3.5.4
	<ul style="list-style-type: none"> <li>SRA – Heel (Angle of 7°)</li> </ul>	0,40	≥ 0,28	5.3.5.4
	<ul style="list-style-type: none"> <li>SRB – Sole (entire sole)</li> </ul>	0,20	≥ 0,18	5.3.5.4
	<ul style="list-style-type: none"> <li>SRB – Heel (Angle of 7°)</li> </ul>	0,18	≥ 0,13	5.3.5.4
Fresh'n Flex (P)	Puncture resistance	No perforation	≥ 1100 N	6.2.1.1.2
Footbed (A)	Antistatic properties			
	<ul style="list-style-type: none"> <li>Electrical resistance</li> </ul>	dry 10,0 x 10 <sup>8</sup> Ω humid 9,80 x 10 <sup>8</sup> Ω	≥ 10 <sup>5</sup> Ω, ≤ 10 <sup>9</sup> Ω ≥ 10 <sup>5</sup> Ω, ≤ 10 <sup>9</sup> Ω	6.2.2.2 6.2.2.2
Sole/Upper	Thermal insulation			
Heat (HI)	Insole temperature increase	N/A	≤ 22°C	6.2.3.1
Cold (CI)	Insole temperature decrease	N/A	≤ 10°C	6.2.3.2
Heel (E)	Shock-absorption in the heel region	26 J	≥ 20 J	6.2.4
(WR)	Water resistance (Water absorption)	N/A	≤ 3 cm <sup>2</sup>	6.2.5
(M)	Metatarsal protection	N/A	≥ 40 mm	6.2.6
Upper				
Component	Description	Value	Norm Requirements	EN 20345
Grain leather	Tear resistance	190 N	≥ 120 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm <sup>2</sup>	5.4.4
	Water steam permeability	1,8 mg/cm <sup>2</sup> h	≥ 0.8 mg/cm <sup>2</sup> h	5.4.6
	pH value	4,35	≥ 3,2	5.4.7
	Chromium VI	Not detected	No detectable	5.4.9
	Water passed	0 g	≤ 0.2 g	6.3
	Water absorption	12 %	≤ 30%	6.3
Coated support	Tear resistance	60 N	≥ 60 N	5.4.3
	Traction resistance	N/A	≥ 15 N/mm <sup>2</sup>	5.4.4
	Water steam permeability	3,0 mg/cm <sup>2</sup> h	≥ 0.8 mg/cm <sup>2</sup> h	5.4.6
	pH value	N/A	≥ 3,2	5.4.7
	Chromium VI	Not detected	No detectable	5.4.9
	Water passed	0 g	≤ 0.2 g	6.3
	Water absorption	24 %	≤ 30%	6.3

Lining				
Component	Description	Value	Norm Requirements	EN 20345
3D Hi-Tech Fabric	Tear resistance	30 N	≥ 15 N	5.5.1
	Abrasion resistance	<ul style="list-style-type: none"> <li>Dry : the surface shows no holes</li> <li>humid: the surface shows no holes</li> </ul>	No holes till 51.200 cycles	5.5.2
			No holes till 25.600 cycles	5.5.2
	Water steam release	7,8 mg/cm <sup>2</sup> h	≥ 2,0 mg/cm <sup>2</sup> h	5.5.3
	pH value	N/A	No detectable	5.5.4
	Chromium VI	N/A	No detectable	5.5.5

Insole				
Component	Description	Value	Norm Requirements	EN 20345
Fresh n' flex	Thickness	3,5 mm	≥ 2,0 mm	5.7.1
	pH value	N/A	No detectable	5.7.2
	Water absorption	109 mg/cm <sup>2</sup>	≥ 70 mg/cm <sup>2</sup>	5.7.3
	Water release	100 %	≥ 80 %	5.7.3
	Abrasion resistance (after 400 cycles)	No damage	Damage ≤ to norms reference	5.7.4.1
	Chromium VI	N/A	No detectable	5.7.5

Removable footbed				
Component	Description	Value	Norm Requirements	EN 20345
Anatomical, breathable, textile and expanded polymeric material	Thickness	3,5±0,5 mm	N/A	5.7.1
	pH value	N/A	No detectable	5.7.2
	Water absorption	Permeable	Permeable or ≥ 70mg/cm <sup>2</sup>	5.7.3
	Water release	Permeable	Permeable or ≥ 80%	5.7.3
	Abrasion resistance	No damage	Dry No holes till 25.600 cycles	5.7.4.2
			Humid no holes till 12.800 cycles	5.7.4.2
Chromium VI	N/A	No detectable	5.7.5	

Sole						
Component	Description	Value	Norm Requirements	EN 20345		
PU Monodensity Sole	Sole thickness without profiles	9 mm	≥ 4 mm	5.8.1.1		
	Profiles height	4 mm	≥ 2,5 mm	5.8.1.3		
	Tear resistance	5,7 kN/m	≥ 8 kN/m	5.8.2		
	Abrasion resistance	<ul style="list-style-type: none"> <li>relative volume loss</li> </ul>	164 mm <sup>3</sup>	≤ 250 mm <sup>3</sup>	5.8.3	
						Flexion resistance
	<ul style="list-style-type: none"> <li>Notches increase after 30.000 cycles</li> </ul>	Hydrolysis	<ul style="list-style-type: none"> <li>Notches increase after 150.00 cycles</li> </ul>	2 mm	≤ 6 mm	5.8.5
	(HRO) Contact heat resistance (300°C)	N/A	No damage (melting, breaking)	6.4.1		
	(FO) Fuel resistance (volume changes)	0,1 %	≤ 12%	6.4.2		

Date: 04/10/2013

Issued by: Resp.Techn. Eng. A. DITERLIZZI

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