



**EXENA SRL**

**VIA BREDA 7/A Z.I.A  
CIVITANOVA MARCHE MC  
62012**

**TEST REPORT: RP 2014/0627-4-RP-3 of 15/04/2014**

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**DATE OF RECEIVING OF THE SAMPLE: 01/04/2014**

**SAMPLE RECEIVED FOR TESTING:**

**Low safety shoe art. "PEGASO S3 SRC"**

**TEST REQUESTED:**

**Determination of the characteristics according to EN ISO 20345:2011 - Table 18 - Additional requirements for particular applications: S3**

		
EMISSIONE	P. BIGLIA	S. MILANESE
OGGETTO	RESPONSABILE LAB. FISICO MECCANICO	RESPONSABILE LAB. ANALISI CHIMICHE

Il campionamento del materiale ricevuto da esaminare, se non diversamente indicato, è stato effettuato dal cliente.

Il residuo del campione analizzato si conserva per tre mesi.

Il Rapporto di Prova non ha validità di approvazione e/o certificazione del campione esaminato.

Il marchio ACCREDIA e/o l'Accreditamento del CIMAC non possono essere utilizzati nella documentazione di prodotto, a meno che non venga riportata copia integrale, fedele, leggibile del rapporto di prova contenente la dicitura in grassetto "Copia Conforme all'Originale".

Il CIMAC è accreditato da ACCREDIA con numero di Accreditamento 0005. Per le prove accreditate l'ACCREDIA garantisce la competenza del personale, la disponibilità di strumentazione e la conformità delle procedure di prova alla norme procedure in materia.

Il contenuto del presente Rapporto di Prova si riferisce unicamente al campione sottoposto a prova.

Le prove riportate nel presente Rapporto di Prova contrassegnate dalla dicitura "Non accreditate da ACCREDIA" non si riferiscono all'Accreditamento.





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6.2.1.2	Construction:	<p>size 35 right = the penetration-resistant insert is built into the bottom of the shoe in such a manner that it cannot be removed without damaging the footwear. The insert lies above the flange of the safety or protective toecap but is not attached to it.</p> <p>size 35 left = the penetration-resistant insert is built into the bottom of the shoe in such a manner that it cannot be removed without damaging the footwear. The insert lies above the flange of the safety or protective toecap but is not attached to it.</p> <p>size 42 right = the penetration-resistant insert is built into the bottom of the shoe in such a manner that it cannot be removed without damaging the footwear. The insert lies above the flange of the safety or protective toecap but is not attached to it.</p> <p>size 42 left = the penetration-resistant insert is built into the bottom of the shoe in such a manner that it cannot be removed without damaging the footwear. The insert lies above the flange of the safety or protective toecap but is not attached to it.</p> <p>size 48 right = the penetration-resistant insert is built into the bottom of the shoe in such a manner that it cannot be removed without damaging the footwear. The insert lies above the flange of the safety or protective toecap but is not attached to it.</p> <p>size 48 left = the penetration-resistant insert is built into the bottom of the shoe in such a manner that it cannot be removed without damaging the footwear. The insert lies above the flange of the safety or protective toecap but is not attached to it.</p>	<p>The penetration-resistant insert shall be built into the bottom of the shoe in such a manner that it cannot be removed without damaging the footwear. The insert shall not lie above the flange of the safety or protective toecap and shall not be attached to it. If the non-metallic insert having the function of an insole simultaneously these requirements are not applied.</p>
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## 6.2.1.3

Dimensions: size 35 right = the penetration-resistant insert is of such a size that, with the exception of the heel region, the distance between the line represented by the feather edge of the last and the edge of the insert (X) is  $\leq 6,5$  mm. In the heel region the distance between the line represented by the feather edge of the last and the insert (Y) is  $\leq 17$  mm. The penetration-resistant insert has no holes.

size 35 left = the penetration-resistant insert is of such a size that, with the exception of the heel region, the distance between the line represented by the feather edge of the last and the edge of the insert (X) is  $\leq 6,5$  mm. In the heel region the distance between the line represented by the feather edge of the last and the insert (Y) is  $\leq 17$  mm. The penetration-resistant insert has no holes.

size 42 right = the penetration-resistant insert is of such a size that, with the exception of the heel region, the distance between the line represented by the feather edge of the last and the edge of the insert (X) is  $\leq 6,5$  mm. In the heel region the distance between the line represented by the feather edge of the last and the insert (Y) is  $\leq 17$  mm. The penetration-resistant insert has no holes.

size 42 left = the penetration-resistant insert is of such a size that, with the exception of the heel region, the distance between the line represented by the feather edge of the last and the edge of the insert (X) is  $\leq 6,5$  mm. In the heel region the distance between the line represented by the feather edge of the last and the insert (Y) is  $\leq 17$  mm. The penetration-resistant insert has no holes.

size 48 right = the penetration-resistant insert is of such a size that, with the exception of the heel region, the distance between the line represented by the feather edge of the last and the edge of the insert (X) is  $\leq 6,5$  mm. In the heel region the distance between the line represented by the feather edge of the last and the insert (Y) is  $\leq 17$  mm. The penetration-resistant insert has no holes.

size 48 left = the penetration-resistant insert is of such a size that, with the exception of the heel region, the distance between the line represented by the feather edge of the last and the edge of the insert (X) is  $\leq 6,5$  mm. In the heel region the distance between the line represented by the feather edge of the last and the insert (Y) is  $\leq 17$  mm. The penetration-resistant insert has no holes.

The penetration-resistant insert shall be of such a size that, with the exception of the heel region, the maximum distance between the line represented by the feather edge of the last and the edge of the insert (X) is 6,5 mm. In the heel region the maximum distance between the line represented by the feather edge of the last and the insert (Y) shall be 17 mm (see figure 4). The penetration-resistant insert shall have no more than three holes of maximum diameter 3 mm to attach it to the bottom of the footwear.

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6.2.1.4	Flex resistance of penetration-resistant insert:	size 35 right = after $1 \times 10^6$ flexes, the penetration-resistant insert shows no visible signs of cracking. size 35 left = after $1 \times 10^6$ flexes, the penetration-resistant insert shows no visible signs of cracking. size 42 right = after $1 \times 10^6$ flexes, the penetration-resistant insert shows no visible signs of cracking. size 42 left = after $1 \times 10^6$ flexes, the penetration-resistant insert shows no visible signs of cracking. size 48 right = after $1 \times 10^6$ flexes, the penetration-resistant insert shows no visible signs of cracking. size 48 left = after $1 \times 10^6$ flexes, the penetration-resistant insert shows no visible signs of cracking.		After $1 \times 10^6$ flexes, penetration-resistant inserts shall show no visible signs of cracking.
6.2.1.5.2	Corrosion resistance of non-metallic penetration-resistant insert:	Non-metallic penetration-resistant insert comply with the requirements of EN 12568:2010, 6.4.		Non-metallic penetration-resistant insert shall comply with the requirements of EN 12568:2010, 6.4.
6.2.2.2	Antistatic footwear:	Dry: size 35 right = $5,12 \times 10^8 \Omega$ size 35 left = $5,12 \times 10^8 \Omega$ size 42 right = $5,29 \times 10^8 \Omega$ size 42 left = $5,29 \times 10^8 \Omega$ size 48 right = $5,48 \times 10^8 \Omega$ size 48 left = $5,48 \times 10^8 \Omega$	Wet: size 35 right = $1,04 \times 10^8 \Omega$ size 35 left = $1,04 \times 10^8 \Omega$ size 42 right = $1,21 \times 10^8 \Omega$ size 42 left = $1,21 \times 10^8 \Omega$ size 48 right = $1,41 \times 10^8 \Omega$ size 48 left = $1,41 \times 10^8 \Omega$	The electrical resistance shall be above 100 k $\Omega$ and less than or equal to 1.000 M $\Omega$ (i.e. between $1,00 \times 10^5 \Omega$ and $1,00 \times 10^9 \Omega$ ).
6.2.4	Energy absorption of seat region:	size 35 right = 30,0 J size 35 left = 30,0 J size 42 right = 33,0 J size 42 left = 33,0 J size 48 right = 35,0 J size 48 left = 35,0 J		$\geq 20 \text{ J}$



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Clauses of EN ISO 20345:2011		Results:	Requirements of EN ISO 20345:2011
6.3	Water penetration and water absorption:	Water absorption = 19 % Water penetration = 0,0 g	$\leq 30 \%$ $\leq 0,2 \text{ g}$
6.3	Construction:	Non-functional and decorative stitching and perforations are not used on footwear.	Non-functional and decorative stitching and perforations shall not be used on footwear for which water resistance of the upper is claimed.

**OUTSOLE**

Clauses of EN ISO 20345:2011		Results:	Requirements of EN ISO 20345:2011
6.4.2	Resistance to fuel oil:	Increase in volume size 35 = 0,7 % Increase in volume size 42 = 0,7 % Increase in volume size 48 = 0,7 %	$\leq 12 \%$

**\* End of Test Report \***