





**HARVIK RUBBER INDUSTRIES SDN. BHD.**




**Technical Specification for Article 9726**

**Product : Professional Dielectric Safety Boot**

<b>Colour</b>	Yellow/ Green
<b>Size range</b>	Euro : 36 – 50
<b>Type of construction</b>	• Vulcanized Rubber Upper and Sole
<b>Last/ Sole Pattern</b>	• Last : VSV • Sole Pattern : SNV
<b>Specialty</b>	• Tested individual boots at 5kV (wet) • Optional testing @10kV (wet) or 37kV (dry)
<b>Recommendation</b>	• For working environment with high voltage hazards • Power station operations • Substation (step-up/ step-down/ distribution) operations • Electrical hazards with wet condition/ water exposure • High current leakage hazards • Electrical installations
<b>Compliance</b>	European Standard CE / Australian – New Zealand Standard Approved –   EN ISO 20345:2004 SB E HRO I SRA EN 50321:1999   <b>Class 0</b>  EN 20345 : 2004 (SB E HRO I) EN 50321:1999 (Class O) AS/ NZS 2210.3:2009 (E HRO)

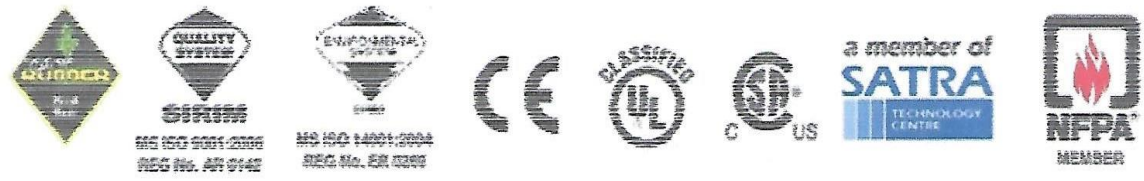


 <p>AS/NZS 2210.3:2009 HRO</p>	<p>SB = Standard Basic Protection as per EN ISO 20345                  E = Electrically insulating footwear tested as per EN 50321                  HE = Heel Energy Absorption                  HRO = Resistance to Hot Contact 300°C for 60 seconds                  SRA = Slip resistance on ceramic tile floor with Sodium Lauryl Sulphate.                  Requirements Heel : CoF &gt; 0.28 , Flat : CoF &gt; 0.3</p> <p>Class O = Installations with nominal voltage up to 1000V AC/ 1500V DC</p> <p>CSA Z195-09/ ASTM F 2413-11</p> <p>Class 1 Toe protection                  18kV Electric Shock Resistance (ESR) protection</p>
<p><b>Lining Material</b></p>	<ul style="list-style-type: none"> <li>Selected polyester grade for electrical insulation</li> <li>Comes with extra comfort and durability</li> </ul>
<p><b>Upper construction</b></p>	<ul style="list-style-type: none"> <li>Waterproof (Electrically verified)</li> <li>Reinforced rubber upper</li> <li>High visibility with green and yellow contrast</li> <li>Easy for cleaning</li> </ul>
<p><b>Sole / Heel</b></p>	<ul style="list-style-type: none"> <li>Electrical shock resistance sole suitable for high voltage/ current environment</li> <li>Fuel oil resistance sole suitable for inimical environment</li> <li>Slip resistant vulcanized rubber sole</li> <li>Excellent abrasion resistant for extra durability</li> <li>Heel energy absorption design to minimize the heel impact</li> <li>Catered to enter high temperature with HRO performance</li> </ul>
<p><b>Steel Toe Cap</b></p>	<ul style="list-style-type: none"> <li>Non-corrosive coating treatment</li> <li>Meets EN ISO 20345 impact and compression tests</li> <li>Reliable protection in cold &amp; hot environments</li> </ul>
<p><b>Steel Shank</b></p>	<ul style="list-style-type: none"> <li>Doubled ribbed ladder shank for improved midfoot stability and support</li> </ul>
<p><b>Chemical Resistance</b></p>	<ul style="list-style-type: none"> <li>Sole &amp; Upper – Resistance towards strong acids and alkalis</li> </ul>
<p><b>Finishing</b></p>	<ul style="list-style-type: none"> <li>Lacquer coating for weather protection</li> </ul>
<p><b>Packing</b></p>	<ul style="list-style-type: none"> <li>Recyclable Polybag &amp; 6 pairs in a carton</li> </ul>

\*Specifications of the product are subject to changes without prior notice for further enhancements.

Rev: 08/BUVE

DEC 2011







<b>Firm:</b>	Harvik Rubber Industries Sdn Bhd 1414 Mukim 1 Prai Free Industrial Zone 1 13600 Prai PENANG Malaysia	<b>CQ reference</b>	FWTD171488/0904/ X/DCR/1
		<b>Date:</b>	2 <sup>nd</sup> April 2009
		<b>Samples received:</b>	19 <sup>th</sup> January 2009 & 17 <sup>th</sup> March 2009
<b>Attention of:</b>	Siti Nur Mustagimah	<b>Testing completed:</b>	26 <sup>th</sup> March 2009

**TECHNICAL SERVICES REPORT**

**Subject:** Testing of footwear in accordance with EN ISO 20345:2004  
**Sample reference:** Style no 9725 & 9726

**Conditions of issue:**

This report may be forwarded to other parties provided that it is not changed in any way. It must not be published, for example by including it in advertisements, without the prior written permission of SATRA.

Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

Tests marked † fall outside the UKAS Accreditation Schedule for SATRA. All interpretations of results of such tests and the comments based upon them are outside the scope of UKAS accreditation and are based on current SATRA knowledge.

A satisfactory test report in no way implies that the product tested is approved by SATRA and no warranty is given as to the performance of the product tested. SATRA shall not be liable for any subsequent loss or damage incurred by the client as a result of information supplied in the report.

Except where stated, an uncertainty has been applied to the results within this report, based on a standard uncertainty multiplied by a coverage factor  $k = 2$ , providing for a confidence level of approximately 95%.

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Footwear Technology - Testing  
On behalf of SATRA Technology Centre Ltd