SIRIM QAS International Sdn. Bhd.
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TEST REPORT

REPORT NO : 2025MA0394	PAGE : 1 OF 10

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Applicant	: SHELLEMAS SDN. BHD. No. 41, Jalan Mas Jaya 2, Kawasan Perindustrian Mas Jaya, Hulu Langat, 43200 Cheras, Selangor Darul Ehsan, MALAYSIA.
Manufacturer	: Not Stated.
Product	: Kasut Kawad Lelaki
Reference Standard / Method of Test	: Spesifikasi Teknikal Bagi Pembekalan Kasut Kawad Lelaki Dan Wanita Polis Diraja Malaysia (PDRM)
Description of sample/ Description of Test Specimen	: 1 pair of Kasut Kawad Lelaki

Disclaimer: All the information stated above has been provided/agreed by the Applicant. SIRIM QAS International Sdn. Bhd. shall not be held responsible for the accuracy, completeness, or validity of the information provided by the Applicant which may affect the validity of the test results. The accuracy and reliability of the test results are contingent upon the integrity and accuracy of the information provided by the Applicant.

Date Received of Complete Application	: 08 April 2025
Job No.	: J20251390327
Description of Test Results/ Overall Test Result	: The test results of the submitted test samples are described in page 2 to page 8 of this test report.
Issued Date	: 25 April 2025

Approved Signatory;

(MOHD YUNUS BIN ABDUL M[illegible])
Testing Executive

SIRIM QAS International Sdn. Bhd. MECHANICAL & AUTOMOTIVE SECTION

(DR KAMARULZAMAN BIN MAT ZIN)
Head
Mechanical & Automotive Section
Testing Services Department

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TEST RESULTS

Model: Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

Clause	Requirement	Results/observations
1.1	Performance Spesification	
1.1.1	Design, Pattern Dimensions	
	The design shall be calf length derby boot with toe cap, uppers are of full leather, the Midsole and Outsole are of Resin rubber (Escalate) and the half midsole in between the middle and outer sole shall be of vegetable tanned leather sole combination and are attached by cement and stitching using Mock Welted Construction (MWC)	- Calf length derby boot with toe cap. - Uppers are full leather. - The Midsole and Outsole are of resin rubber and the half midsole in between the middle and outer sole are combination and attached by cement and stitching.
1.1.2	The toe shape shall be round	- Round shape.
1.1.3	The boot sizes available are in UK size and are as follows: 5, 6, 7, 8, 9, 10, 11, 12, 13	- Not stated on the boot.
1.1.4	Total height of boot measured at the back shall be 200 to 205 mm (excluding the sole and heels heights)	- Total height: 203 mm

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Model: Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

Clause	Requirement	Results/observations
1.1.2	**Materials**	
1.1.2.1 **1.1.2.1.1**	**Upper Leather** The upper leather shall be black chrome tanned leather with thickness as follows: a) Toe cap – Smooth Corrected Grain or Printed Leather - Min 1.6 mm b) Vamp - Pebble Grain Leather Min 1.6 mm c) Quarter - Pebble Grain Leather Min 1.6 mm d) Back Strap - Smooth Corrected Grain Min 1.6 mm	a) Toe cap: Smooth corrected grain Thickness: 1.79 mm b) Vamp: Pebble Grain Leather Thickness: 1.81 mm c) Quarter: Pebble Grain Leather Thickness: 1.77 mm d) Back strap: Smooth corrected grain Thickness: 1.63 mm
1.1.2.1.2	It shall be of the following specifications when tested by the test methods specified:- Tests / Value / Test Method a) Flexing (without cracking) / 20,000 min b) Tensile Strength / 150 kg/cm^2 c) Finished Fastness / Grey Scale 4 min	- No cracking before 20000 cycles. - 158.30 kg/cm^2 - Gray scale 5
1.1.2.2	**Tongue** The half-bellowed tongue shall be of black chrome tanned lining Lunar printed leather of 1.1 – 1.3 mm in thickness.	- Black chrome tanned. - 1.24 mm
1.1.2.3	**Facing** The facing shall be of Full grain Black finished chrome tanned lining leather of minimum 0.8 mm to 1.0 mm in thickness.	- Full grain black finished chrome tanned. - 1.0 mm

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Model: Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

Clause	Requirement	Results/observations
1.1.2.4	**Collar Padding** There shall be a padding of sponge or equivalent material of 10 mm minimum thickness when expanded.	- Sponge. - 13.92 mm
1.1.2.5	**Toe Puff** The toe puff shall be of (thermoplastic/material) or polyethylene fiber board of min. 1.0 mm in thickness.	- Polyethylene fiber board. - 1.99 mm
1.1.2.6	**Counter Stiffeners** The counter stiffeners shall be fiberboard or thermoplastic material of 1.0 to 1.5 mm in thickness.	- Fiber board. - 1.44 mm
1.1.2.7	**Eyelets** The eyelets shall be made of brass or aluminum and black coated. There shall be 8 pairs of eyelets (5.5 -6.0 mm) with reinforced washers on each boot. They shall be evenly spaced and positioned.	- Brass black coated. - 8 pairs of eyelets with reinforced washers on each boot. - 5.57 mm - They spaced and positioned evenly.
1.1.2.8	**Quarter Lining** The quarter shall be lined with a sponge laminated with a non-woven lining of minimum 180g/m^2 in weight with Density of 20kg/m^3.	- Lined with a sponge laminated with a non-woven lining. - Weight: 180g/m^2 - Density: 20kg/m^3
1.1.2.9	**Laces** The laces shall be made of nylon, polyester, polypropylene or equivalent of min 165 to 175 cm in length. They shall not break under a tensile force of 20 kgf	- Nylon. - Length: 168 cm - Tensile force: 32 kgf

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Model: Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

Clause	Requirement	Results/observations
1.1.2.10 **1.1.2.10.1**	**Sewing Thread** The sewing thread shall be nylon or polyester size 20 and 40 with a fastness rating of not less than 4 when tested The minimum breaking load shall be 4 kgf	- Nylon. - Breaking Load: 4.76 kgf
1.1.2.10.2	Sewing shall be lock-stitched type 301 with 2.5 to 3.0 stitches per cm. Thread breaks shall be over sewn at the ends for not less than 12 mm to prevent raveling except where ends are turned under a hem or held down by other stitching.	- Lock-stitched type 301. - 3.0 stitches per cm - 12.71 mm
1.1.3	**Insole** The insole shall be either of cellulose board or non-woven of thickness 2.5 to 3.5 mm.	- Cellulose board. - Thickness: 3.47 mm
1.1.3.1	**Steel Shank** There shall be a steel shank between the insole and the midsole. The shank shall be from cold rolled, carbon steel with dimension as follows: Length : 100 to 115 mm Width : 120 mm Thickness : 10 mm – 12 mm	- Steel shank between the insole and the midsole. - Steel - Length: 119.21 mm - Width: 124 mm - Thickness: 11.16 mm
1.1.3.2	**Midsole** The midsole shall be Resin Wood (escalate) of thickness 3.7 to 4.2 mm and hardness of 85 to 95 IRHD.	- Resin Wood - Thickness: 3.79 mm - Hardness: 92.7 IRHD
1.1.3.3	**Half Middle Sole** The half middle sole is of Vegetable tanned sole leather of thickness 3.5 to 4.0 mm.	- Vegetable tanned sole. - Thickness: 3.76 mm

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Model: Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

Clause	Requirement	Results/observations
1.1.3.4	**Outsole** The outsole shall be resin wood of thickness 3.7 to 4.2 mm and hardness of 85 to 95 IRHD.	- Resin wood - Thickness: 4.16 mm - Hardness: 92.7 IRHD
1.1.3.5	**Resin Wood (Escalate)** The Resin Wood (Escalate) shall be of the following specifications by the test methods specified. No Specification Value Test Method a) Tensile Strength (kg/cm²) 65 BS 903 Part A2 b) Elongation at Break (%) Min 200 BS 903 Part A2 c) Hardness (I.R.H.D) 90 (+5) BS 903 Part A26 d) Specific Gravity (g/cm) 1.45 BS 903 Part A1	a) Tensile Strength: 160 kg/cm² b) Elongation at Break: 202 % c) Hardness: 92.7 IRHD d) Specific Gravity: 1.52 g/cm^3
1.1.3.6	**Insock** There shall be a non-removable EVA sponge laminated or equivalent material of 4 to 6 mm thickness.	- Non-removable EVA - Thickness: 5.19 mm
1.1.3.7 1.1.3.7.1	**Heel** The heel shall be made from stacked Resin Wood (Escalate) with 2 layers of vegetable tanned sole leather stacked with the first piece on the top and the second piece just above the Heel Tip/leaf.	- Made from stacked Resin Wood (Escalate) with 2 layers of vegetable tanned sole leather stacked.

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Model: Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

Clause	Requirement	Results/observations
1.1.3.7.2	The height of heel measured from the back of boot shall be 35 to 40 mm (inclusive of the midsole and sole). To reinforce the Heel for strength, all layers are adhesive applied, pressed and nailed with Top helical nail numbered: 13 pcs/pr measuring 12x26mm, Brad nail: 13pcs/pr measuring 1" and the base with Iron panel nails numbered: 13pcs/pr measuring ¾".	- Heel: 36.49 mm - Numbered: 13 pcs top helical nail. - Brad nail: 13 pcs measuring 1" - Iron panel nails numbered: 13 pcs measuring ¾".
1.1.3.8	**Heel** Tip The heel tip shall be in the shape of a horseshoe and of steel and firmly attached to the heel part with 7 screws. The thickness shall be 4.5 mm at the front.	- Shape of a horseshoe and of steel and firmly attached to the heel part with 7 screws. - Thickness: 4.57 mm
1.1.3.9	**Toe Tip** The toe tip shall be of steel and is firmly attached to the front part of the boot's sole with 5 pieces of screws. The thickness of toe tip shall be 3.5 mm thickness	- Steel and is firmly attached to the front part of the boot's sole with 5 pieces of screws. - Thickness: 3.56 mm
1.1.3.10	**Screws For Toe And Heel Tip** The screws for toe and heel tip shall be of steel and is firmly screwed in. The length shall be 15 - 16 mm and the head diameter is 5 - 6 mm	- Steel and is firmly screwed in. - Length: 15.39 mm - Head diameter: 5.31 mm
1.1.3.11	**Boot Screw Studs** Each side of the boot shall have 12 pieces of steel boot screw studs screwed to the sole. The length shall be 12 mm and the head diameter is inner 10 mm and outer 12 mm	- 12 pieces of steel boot screw studs screwed to the sole. - Length: 12.09 mm - Head diameter inner: 10.92 mm - Head diameter outer: 12.07 mm

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Model: Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

Clause	Requirement	Results/observations
1.1.3.12 **1.1.3.12.1**	**Bottom Thread** Insole stitching – There are two types of threads for insole stitching. The midsole thread (bottom) shall be of braided polyester or linen with minimum of 1 mm. The bobbin thread (inside) shall be of polyester or linen of 1.0 mm thickness.	- The midsole thread: 1.20 mm - The bobbin thread: 1.23 mm
1.1.3.12.2	**Outsole Stitching** The thread shall be of braided Polyester or linen of minimum 1 mm.	- Braided polyester thread. - 1.23 mm

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PHOTO OF SAMPLE

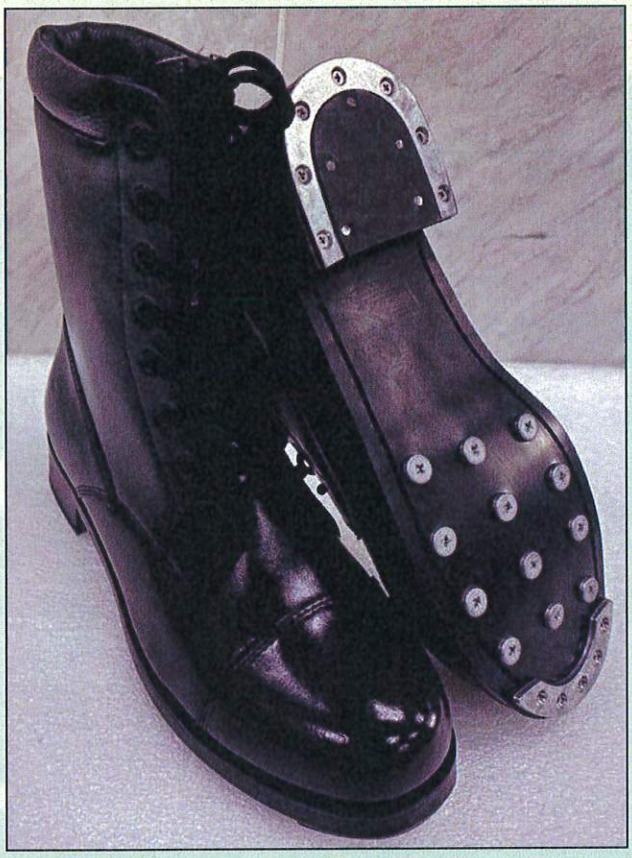


Figure 1: Photo of Model Kasut Kawad Lelaki Polis Diraja Malaysia (PDRM)

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1. A Test Report will be issued in respect of the Testing Services conducted and shall relate only to the sample actually tested by SIRIM QAS International. The results in the Test Report will be based on all the information provided by the Applicant, unless otherwise stated. SIRIM QAS International makes no warranties whatsoever, and the Applicant shall not represent in any manner that any duplication or mass production of the Product is identical to the Sample actually tested, or that SIRIM QAS International has tested any duplicated or mass-produced Product. Measurement uncertainty shall be included in the Test Report when no statement of conformity is required.

2. For quantitative test results (with values), when a statement of conformity to a specification or standard is applied, the Simple Acceptance Rule shall be used. Unless otherwise stated, the Acceptance Rule with Guard Band will be applied, and an additional charge will be incurred accordingly.

3. For qualitative test results (visual observation), when requested by the applicant, a statement of conformity shall be included in the Test Report. If there is no request by the Applicant, a statement of conformity can be included in the Test Report based on SIRIM QAS International Sdn. Bhd.'s discretion.

4. The Applicant shall not at any time misrepresent the content of any Test Report provided by SIRIM QAS International Sdn. Bhd., nor shall the Test Report be misused, amended, changed, varied, or modified in any manner whatsoever by the Applicant or otherwise.

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8. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International Sdn. Bhd. may disclose the information pertaining to the Test Report for the purposes of such investigation.

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   a) Informing and placing a notice in the media;
   b) Obtaining an injunction from the Court (costs on a solicitor-client basis to be borne by the Applicant);
   c) Refusing to accept any further Products for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
   d) Instructing the Applicant to withdraw and recall the advertisement, statement, or document in question and to publish a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
   e) Informing or lodging a report pertaining to the Applicant's Test Report with the relevant authorities.

10. SIRIM QAS International is committed to supporting environmentally friendly business practices by reducing paper consumption. Therefore, we do not issue any hard copies of the Test Report to the Applicant. However, additional certified true copies or softcopies of the Test Report may be issued upon request by the Applicant, subject to payment of the relevant fee. Certified true copies or softcopies of the Test Report shall only be provided for Test Reports issued not more than **three (3) years** from the date of issuance.

11. The issuance of an Amendment Report due to the following reasons is chargeable to the Applicant:
    a) Typo or change1 in details of the Applicant's name and/or address; or
    b) Typo or change1 in details of the Manufacturer's name and/or address; or
    c) Typo or change1 in details of the Factory location name and/or address; or
    d) Typo or change1 in details of the brand, size, model and/or type designation; or
    e) Typo in details of the description of sample.

    Note: [1]Applicable only for electrical and electronic products based on IECEE OD-2020.

12. Any corrections and/or changes to the Report requested by the Applicant shall only be allowed if the date of issuance of the original Test Report has not exceeded six (6) months and shall be limited to a maximum of three (3) times. After either of these conditions is met, no further amendments to the Test Report shall be issued.

13. However, the issuance of a Supplementary Report due to the following reasons is free of charge (FOC):
    a) Misprints and typographical errors;
    b) Missing technical information as agreed in the PP1 form;
    c) Test data not reported; or
    d) Mistakes in the reporting of test data.