



RESTRICTED



Enclosure 3-1

SPECIAL CONDITIONS FOR THE SUPPLY OF EMBOSSED IEMS

GENERAL

1. **General Bid Conditions (GBCs) and General Conditions of Contract (GCC)**. The conditions contained in GBCs and the GCC's and all other conditions will apply.
2. **Special conditions on the Award Of Bid**. The South African Air Force (SAAF) reserves the right to award a bid as a whole to one bidder.
3. **Break-out procurement**. The SAAF reserves the right to, in support of government initiative to promote Small Business and in accordance with the National Small Business Act, 1996 (Act no 102 of 1996), consider the breakout of procurement into smaller segments. This implies that the bid can be allocated to more than one contractor, in manageable segments, and according to the predetermined capacity of smaller enterprises. The department will in all cases indicate the intention, elsewhere in the bid document, to apply the breakout procurement principles.

STANDARDS

4. **Capability Report**. It is a condition of this bid that all bidders submit a manufacturing capability report not older than twelve (12) months with the bid documents at the closing date and time of the bid. The full capability report must be issued by an organisation accredited or recognised by the South African National Accreditation System (SANAS) and must indicate whether the bidder/manufacturer has the capability and capacity to manufacture the product(s)/items. The capability report has to address the following requirements.
 - a. Production capacity and capability.
 - b. List of items/products produced in the company.
 - c. Company organisation.
 - d. Facilities.
 - e. Quality control systems.
 - f. Incoming inspections.
 - g. In-process quality control.
 - h. Final inspection.
 - i. Packaging.
 - j. Non-conforming product.
 - k. Communication/documentation control and work movement.
5. **Capability Report Preferences**. The SAAF reserves the right to give preference to bidders with a capability of 80% or higher.



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Enclosure 3-2

SPECIAL CONDITIONS FOR THE SUPPLY OF EMBOSSED IEMS

6. **SANS and CKS specifications.** The SANS and CKS specifications, if requested in this bid are obtainable from the Director, SA Bureau of Standards, Pretoria, Cape Town, Durban and Port Elizabeth.
7. **Colour Standard (where applicable).** In the event of it being required that the material specified must match a specified colour standard, such colour is to be approved by the appointed test house/ SAAF Product system Manager prior to the purchasing or manufacturing of bulk quantities required for garment production.

PRE-PRODUCTION SAMPLES, TESTS, ANALYSIS AND INSPECTIONS

8. **Pre-production Samples (PPS).** It is expected from the successful bidder to submit three (3) PPS of different sizes and trim charts to the SAAF for submission to the appointed test house for testing and sealing.
9. Unless otherwise stipulated by the SAAF, the first PPS must be submitted within 30 calendar days from receipt of the official government order from the SAAF.
10. In the case of a failure or non-submission a second PPS is to be submitted to the SAAF Product System Manager within 14 calendar days after the successful bidder was informed of the findings regarding the first PPS.

IMPORTANT: It must be noted that a PPS not submitted on the correct date will be considered a failure.

11. If the second PPS either fails again or is not submitted, the successful bidder has 7 calendar days to re-submit a third PPS. Failure to deliver the samples within the specified time and according to the required specification(s) will lead to cancellation of the contract and the commencement of paragraph 21 of the General Conditions of the Contract (GCC).

IMPORTANT: It must be noted that the SAAF will only be responsible for the first attempt pass of the pre-production sample testing.

12. **Commencement with production.** Mass production shall only commence after the South African Air Force Product System Manager has informed the successful bidder that the PPS passed.

13. **In Process Inspections.** The SAAF may request In Process Inspections for certain items as determined from time to time. The cost of these inspections will in the case of local manufacturers be for the SAAF's account according to paragraph 8 of the GCC. If it does not comply with the specification(s), the cost will be for the account of the contractor. Should items be manufactured outside the borders of the RSA, all inspection costs will be for the account of the manufacturer.

14. **Consignment Inspections.** The acceptance of all goods/materials ordered on contract as a result of this bid will be subject to inspection/testing by the appointed test house for compliance with specification(s). The SAAF reserves the right to have these inspections at the delivery point stipulated in the bid documents. The cost of these inspections will in the case of local manufacturers be for the SAAF's account according to paragraph 8 of the GCC. If it does not comply with the specification(s), the cost will be for the account of the contractor including transport costs. Should items be manufactured outside the borders of the RSA, all inspection costs will be for the account of the manufacturer.



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Enclosure 3-3

SPECIAL CONDITIONS FOR THE SUPPLY OF EMBOSSED IEMS

DELIVERY AND DOCUMENTS

15. **Delivery requirement of the containers (corrugated board boxes).** The supplier may contact the SAAF if they need a colour copy of Specification number SALM 108 Version 07.0/January 2023 for corrugated board boxes for clothing as each year of manufacture has a different colour code. The relevant section may be contacted via the following email address: systemmdss@gmail.com.

16. The contents of these special conditions have been noted and accepted.

Signature(s) of bidder of assignee(s)

Name:

Representing:

PRIVATE SPECIFICATION

Prepared for the

South African Air Force



EMBOSSSED COLLAR RANK INSIGNIA

for

CAMOUFLAGE UNIFORM (BLACK ON THATCH BEIGE)

of:

General Officers

Officers

Warrant Officers

Candidate Officers

Chaplains

Non-Commissioned Officers



SALM 666

Version 02.0/September 2018

1. Scope

This specification covers the materials, design and make of embossed collar rank insignia applicable to camouflage dress for personnel of the South African Air Force.

The ranks covered by this specification are as follows:

- a) General Officers
- b) Officers
- c) Warrant Officers
- d) Candidate Officers
- e) Chaplains
- f) Non-Commissioned Officers

NOTE: Various National and International patents may apply.

2. Definitions and Abbreviations

For the purposes of this specification, the following definitions apply:

Acceptable: Acceptable to the South African Air Force.

Nominal: Subject to the tolerances normal to good manufacturing practice.

NSN: National Stock Number as reflected as Item Number on a Government Order.

3. General

No materials will be supplied by the South African Air Force.

The materials as specified in paragraphs 4.1 to 4.6 shall be supplied and used by the manufacturer. Trim charts shall accompany the pre-production samples (see Annex B).

National Stock Numbers are given in table 5.

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4. Component Materials

4.1 Base fabric

- ♦ an acceptable coated high bulk continuous filament knitted fabric
- ♦ to comply with the requirements as given in table 1
- ♦ permissible number of defects to comply with the requirements as given in table 2
- ♦ to comply with the requirements as given in 3.1 and 3.2 of table 3
- ♦ the colour shall be a match, in terms of SANS 10076-4 "The assessment of defects in textile piece-goods and made-up articles Part 4: Defects in knitted piece-goods", to Colour No. 04c-2004 "Thatch beige" of CKS 129 "Colours for textiles"

Table 1 – Base fabric requirements

1	2	3
Property	Requirement	SANS number (unless otherwise indicated)
Composition, %		AATCC 20
Nylon ^a	100	
Construction	Knitted interlock ^b and coated with a heat-resistant compound	Visual examination and physical analysis
Mass per area, g/m², min.	260 ^c	5385 ^d
Colour fastness to:		105-C10:2007 Test number C(3)
Washing, rating, min.		
Change in colour	4	
Staining of adjacent fabrics	4	
Dry-cleaning, rating, min.		105-D01
Change in colour	4-5	
Light, rating, min.	4	105-B02

^a High bulk continuous filament yarn.
^b Fine gauge.
^c The mass reflected in column 2 is the mass of the fabric before it has been coated with a heat-resistant compound. The coated fabric shall be of minimum mass 320 g/m² when tested in accordance with SANS 5385.
^d Tested after conditioning in accordance with SANS 70.

Table 2 – Permissible number of defects of base fabric

1	2	3
Limit of acceptable quality	Requirement	SANS Number
LAQ for a piece	10	10076-4
LAQ for a lot	12	10076-4

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Table 3 – Pneumatic heat press requirements

1		2	3	4	5
Test area		Time	Pressure	Temperature, min.	Requirement
3.1	Coated surface	30 seconds	2 bar	280° C	To retain original shape and texture
3.2	Knitted surface	30 seconds	2 bar	230° C	To retain original shape
3.3	Indentation grooves of collar badge	30 seconds	2 bar	250° C	To retain original shape and depth
3.4	Embossing/flat embossed material	30 seconds	2 bar	280° C	To retain original shape and depth

4.2 Adhesive Compound Filler

- ♦ used as a filler between the two layers of outer material (fused together)
- ♦ a heat resistant compound
- ♦ an acceptable co-polymer (synthetic) rubber paint compound adhesive
- ♦ minimum quantity of 90 g/m²
- ♦ to be able to withstand the conditions as specified in 3.1 of table 3

4.3 Embossing material

- ♦ a synthetic rubber paint compound
- ♦ to be able to withstand the conditions as specified in 3.4 of table 3
- ♦ to have the same colour fastness properties as specified for the base fabric
- ♦ colour to be Pantone black

4.4 Non-PVC Polyester film

- ♦ an acceptable non-PVC Polyester film
- ♦ to be of minimum 200 µm

4.5 Pins/prongs

- ♦ be steel pins
- ♦ of dimensions (and tolerances) to be as given in figure 1
- ♦ have a flat base of diameter 12 mm (± 1 mm)
- ♦ sharp point shall be free from burrs
- ♦ shall have one or more grooves or serrations on the pointed end as to allow effective engagement of the clutch
- ♦ so positioned as to give a firm lay of the rank insignia on the uniform fabric
- ♦ number of pins to be as given in section 8

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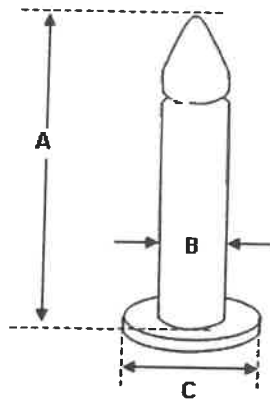


Figure 1 – Dimensions of pins

Figure No	A	B	C
1	8 mm (± 1.0 mm)	1.10 mm (± 0.1)	12 mm (± 1.0 mm)

4.6 Clutches

- ♦ acceptable rubber PVC clutches
- ♦ design to be as given in figure 2
- ♦ nominal diameter of base to be 11 mm
- ♦ colour to be black or white
- ♦ the diameter of the shaft (centre hole) shall be such as to permit full and secure engagement of the prong

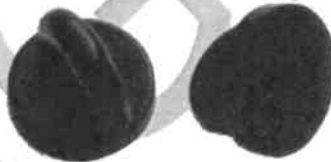


Figure 2 - Clutches

5. Workmanship

Each collar badge shall be:

- ♦ cut, made and embossed with first-class workmanship throughout
- ♦ of uniform and acceptable make, colour and finish

Each collar badge shall be free from:

- ♦ defects, that affect the appearance or may affect their serviceability (or both)
- ♦ marks
- ♦ spots
- ♦ stains, incurred in the making-up

All collar badge edges shall be:

- ♦ neatly double sealed using a cure and press system
- ♦ free from fraying

Collar badges shall be:

- ♦ completely durable at all times
- ♦ such that no separation shall occur between the compound and the fabric of the badge

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6. Design and make

6.1 General requirements (applicable to all ranks)

6.1.1 The collar badges shall:

- ♦ be made according to the dimensions given in sections 9 to 14
- ♦ be constructed from two layers of knitted outer fabric, laminated together with an adhesive compound filler to stabilise and support the collar badges
- ♦ in addition to the two knitted outer material layers, a non-PVC Polyester film (see 4.4) shall be laminated in-between the layers of the outer material
- ♦ have permanent indentation grooves along all edges (marked with a dotted line on the profiles in sections 9 to 14)
 - fully heat resistant to ironing
 - 3 mm from the edges
 - shall comply with the requirements as given in 3.3 of Table 3
- ♦ be embossed with a specific rank as per the attached profiles (see sections 9 to 14), on the face side
- ♦ be delivered in pairs together with an attachment leaflet as given in Annex A

6.1.2 Design and embossing:

- ♦ to have explicit detail
- ♦ be such that all ranking shall be 100% proportionate in size to the original
- ♦ be such that all ranks, where duplication occurs, will be identical
- ♦ corner sharpening and engraving will be used
- ♦ contour effect must be used as a definition
- ♦ comply with the requirements as given in table 4

6.1.3 Printing on back of each badge

- ♦ the back surface of each collar badge shall be clearly printed with either a capital "L" (identifying the left badge) or capital "R" (identifying the right badge) as given in section 8
- ♦ letter to be printed in white, or any other acceptable alternative contrast colour to the base fabric
- ♦ printed in such a way that the embossed Secretary Bird and SAAF eagle shall face inward on the respective badges when worn

6.1.4 The synthetic rubber paint compound used between the layers of the material and the curing and pressing system shall render an article which is:

- ♦ heat resistant to a temperature of a minimum of 280°C
- ♦ machine washable
- ♦ dry cleanable
- ♦ soft and pliable
- ♦ sealed at the edges

6.2 Requirements that pertain to all ranks, except Warrant Officers

6.2.1 Embossing of Coat of Arms and SAAF Eagle:

- ♦ shall be identical to the attached profiles
- ♦ being supplied in pairs, the Secretary bird (that forms part of the Coat of Arms) and SAAF Eagle shall face towards each other (when worn)
- ♦ where knobkierie-and-spear combinations are applicable, mirror images shall apply (per pair)
- ♦ shall be such that the lettering is legible
- ♦ shall be such that the multi-level SAAF Eagle is sculptured in 9 levels
- ♦ shall be such that the multi-level Coat of Arms is sculptured in 13 levels

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6.2.2 Embossing of sword and baton:

- ♦ shall be identical to the attached profiles
- ♦ mirror images shall apply (per pair)
- ♦ shall be such that the multi-level swords are sculptured in 9 levels

6.2.3 Uni-fractional pattern (see section 7):

- ♦ shall be proportionally structured in all ranks to the following measurement:
 - **Officers** (see section 7.1)
 - 4 mm divided into 2 x 2 mm
 - 8 mm divided into 1 x 4 mm and 2 x 2 mm
 - **General Officers** (see section 7.1)
 - 3.35 divided into 2 x 1.675 mm
 - **Other ranks** (where uni-fractional patterns are relevant, see section 7.2)
 - 3.5 mm divided into 2 x 1.75 mm
 - the levels of the uni-fractional patterned braid shall be defined into the measurements as above
 - lowest level of uni-fractional pattern to be of height 0.5 mm
 - highest level of uni-fractional pattern to be of height 1.6 mm

6.2.4 Pin attachment:

- ♦ the underside of each badge shall be fitted with two fastening pins (see figure 5), laminated between the two layers of knitted material (see figure 3)

6.3 Requirements that pertain only to the ranks of Warrant Officers

6.3.1 Embossing of Coat of Arms and frame around outer edge

- ♦ shall be identical to the attached profiles
- ♦ shall have a mock embroidery appearance
- ♦ being supplied in pairs, the Secretary bird (that forms part of the Coat of Arms) shall face towards each other (when worn)
- ♦ knobkierie-and-spear combinations shall be mirror images (per pair)
- ♦ shall be such that the lettering is legible
- ♦ shall be such that the multi-level Coat of Arms is sculptured in 13 levels

6.3.2 Stars and swords

- ♦ shall be identical to the attached profiles
- ♦ shall have a mock embroidery appearance
- ♦ shall be such that the multi-level swords are sculptured in 9 levels

6.3.3 Pin attachment:

- ♦ the underside of each badge shall be fitted with either two fastening pins (see figure 4(a)) or three fastening pins (see figure 4(b)), laminated between the two layers of knitted material (see figure 3)

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Table 4 – Embossing requirements

1	2	3	4	5
Applicable to the following ranks	Design item	Type of print material	Embossing effect	Colour reference
Officers & General Officers	SAAF Eagle, Coat of Arms, Sword, Crest	Embossed	3-D effect	Pantone Black
	Stripes		sculptured with a uni-fractional pattern 3-D effect	
Non-Commissioned Officers	SAAF Eagle		sculptured with a uni-fractional pattern Mock wire embroidered effect 3-D mock embroidered effect 3-D effect	
	Chevron Stripes		3-D effect	
Warrant Officers	Borders		3-D effect	
	Coat of arms		3-D effect	
Chaplains	Stars		3-D effect	
	Crossed swords		3-D effect	
	Christian emblem and SAAF Eagle		3-D effect	
	Horizontal stripes and sides of triangle		3-D effect	
Candidate officers	SAAF Eagle		sculptured using a mock embroidered braid effect 3-D effect 3-D effect	
	Outline of stripe		3-D effect	

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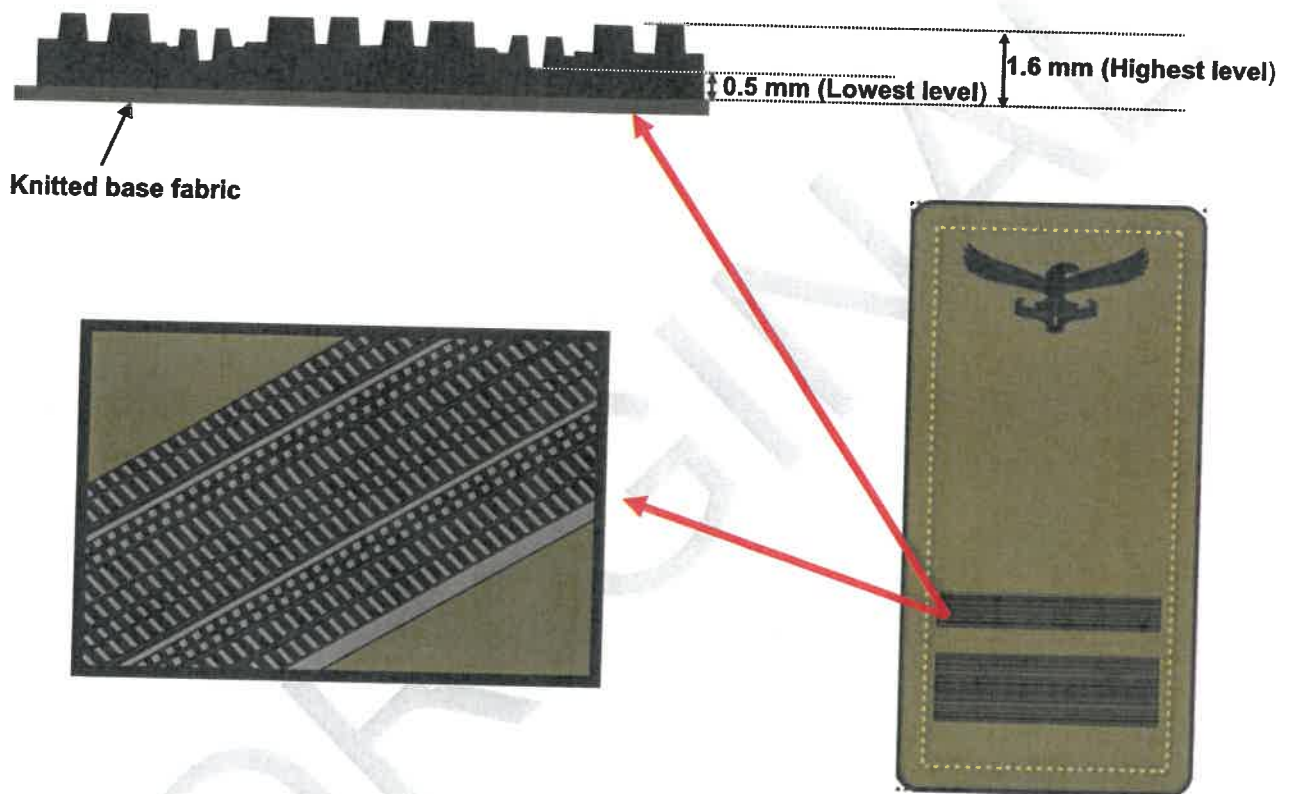
Table 5 – National Stock Numbers

1	2	3
National Stock Number	Item description	Profile
TBD	Insignia Rank Embossed Collar Gen for Camouflage Field Dress	9.4
18-194-3334	Insignia Rank Embossed Collar Lt Gen for Camouflage Field Dress – Black on Thatch beige	9.3
18-194-3335	Insignia Rank Embossed Collar Maj Gen for Camouflage Field Dress – Black on Thatch beige	9.2
18-194-3341	Insignia Rank Embossed Collar Brig Gen for Camouflage Field Dress – Black on Thatch beige	9.1
18-194-4078	Insignia Rank Embossed Collar Col Chaplain for Camouflage Field Dress – Black on Thatch beige	See note
18-194-4104	Insignia Rank Embossed Collar Col for Camouflage Field Dress – Black on Thatch beige	10.6
18-194-4106	Insignia Rank Embossed Collar Lt Col for Camouflage Field Dress – Black on Thatch beige	10.6
18-194-3344	Insignia Rank Embossed Collar Maj for Camouflage Field Dress – Black on Thatch beige	10.5
18-194-3345	Insignia Rank Embossed Collar Capt for Camouflage Field Dress – Black on Thatch beige	10.4
18-194-3347	Insignia Rank Embossed Collar Lt for Camouflage Field Dress – Black on Thatch beige	10.3
18-194-3348	Insignia Rank Embossed Collar 2nd Lt for Camouflage Field Dress – Black on Thatch beige	10.2
18-194-3349	Insignia Rank Embossed Collar F Sgt for Camouflage Field Dress – Black on Thatch beige	10.1
18-194-3351	Insignia Rank Embossed Collar Sgt for Camouflage Field Dress – Black on Thatch beige	14.4
18-194-3390	Insignia Rank Embossed Collar Sgt for Camouflage Field Dress – Black on Thatch beige	14.3
18-194-3393	Insignia Rank Embossed Collar Cpl for Camouflage Field Dress – Black on Thatch beige	14.2
18-194-3397	Insignia Rank Embossed Collar L Cpl for Camouflage Field Dress – Black on Thatch beige	14.1
18-194-3403	Insignia Rank Embossed Collar Chaplain for Camouflage Field Dress – Black on Thatch beige	13
18-194-3410	Insignia Rank Embossed Collar CO for Camouflage Field Dress – Black on Thatch beige	12
18-194-3412	Insignia Rank Embossed Collar WO2 for Camouflage Field Dress – Black on Thatch beige	11.1
18-194-3416	Insignia Rank Embossed Collar WO1 for Camouflage Field Dress – Black on Thatch beige	11.2
18-194-3427	Insignia Rank Embossed Collar WO1 Level 4 for Camouflage Field Dress – Black on Thatch beige	11.3
18-194-3430	Insignia Rank Embossed Collar WO1 Level 4 A for Camouflage Field Dress – Black on Thatch beige	11.4
18-194-3432	Insignia Rank Embossed Collar WO1 Level 3 for Camouflage Field Dress – Black on Thatch beige	11.5
TBD	Insignia Rank Embossed Collar WO1 Level 2 for Camouflage Field Dress – Black on Thatch beige	11.6
	Insignia Rank Embossed Collar WO1 Level 1 for Camouflage Field Dress – Black on Thatch beige	11.7

7. Uni-fractional pattern

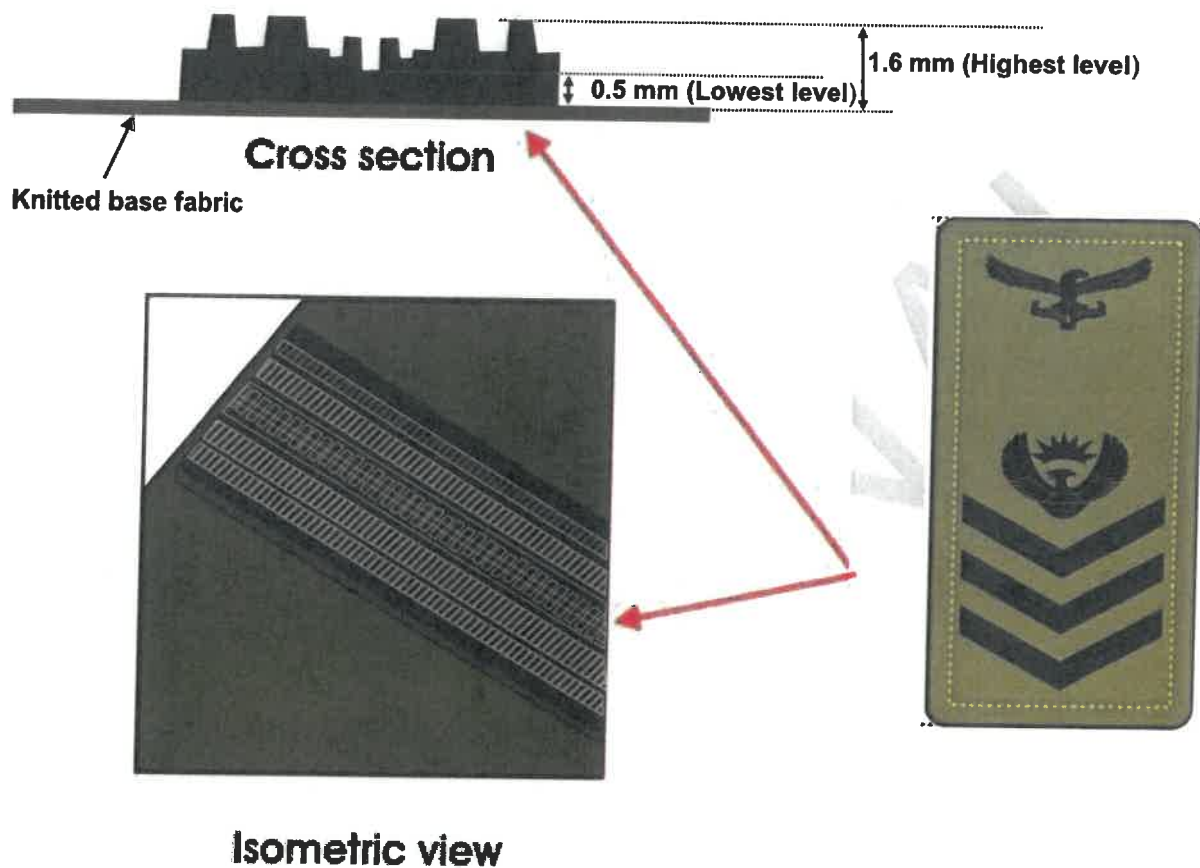
The uni-fractional pattern shall be produced in two different variations and shall be as follows:

7.1 Officers and General Officers



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7.2 All other ranks (where applicable)



Maximum Height of all images - 1.6mm

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8. Pin positioning

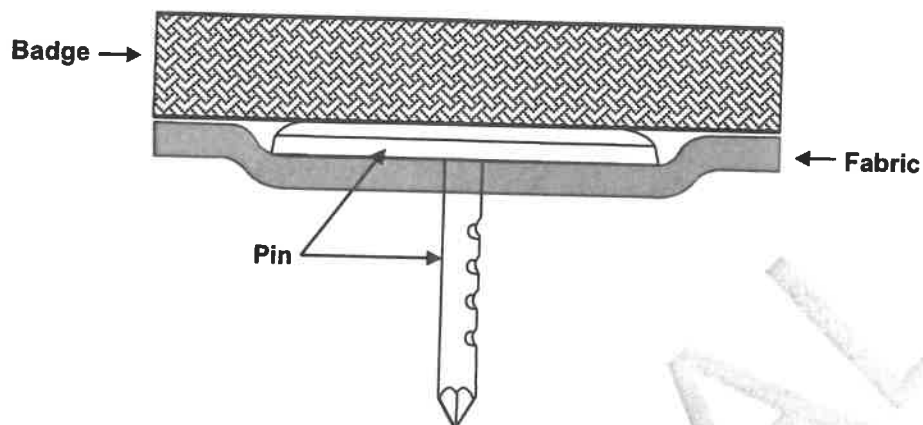


Figure 3 - Positioning of pins (sandwiched between two fabric layers)

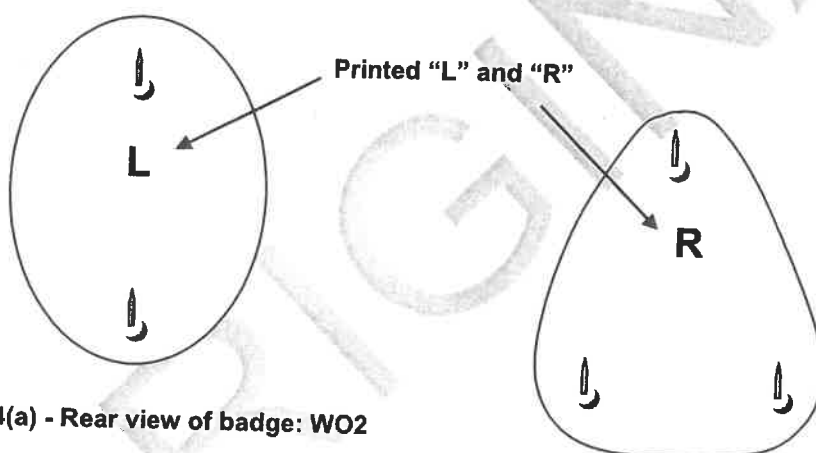


Figure 4(a) - Rear view of badge: WO2

Figure 4(b) - Rear view of badge: WO1, WO1 Level 4 (SWO) to Level 1 (MCWO)

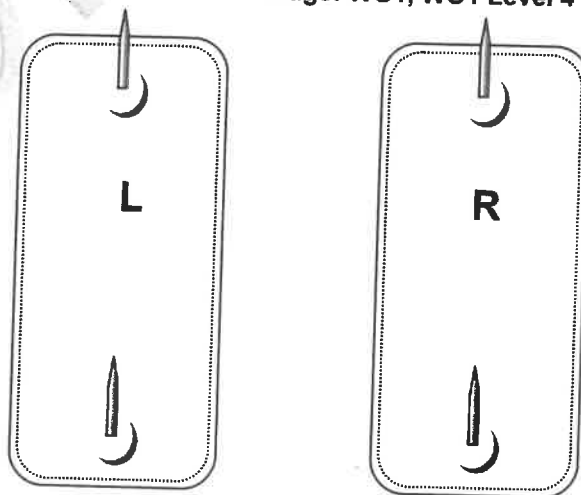
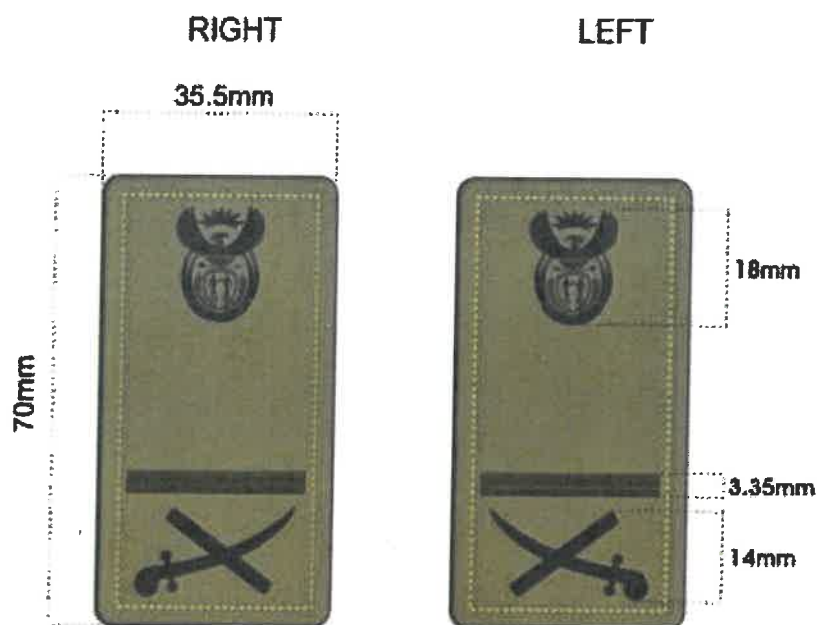


Figure 5 – Rear view of all badges, except those of Warrant Officers

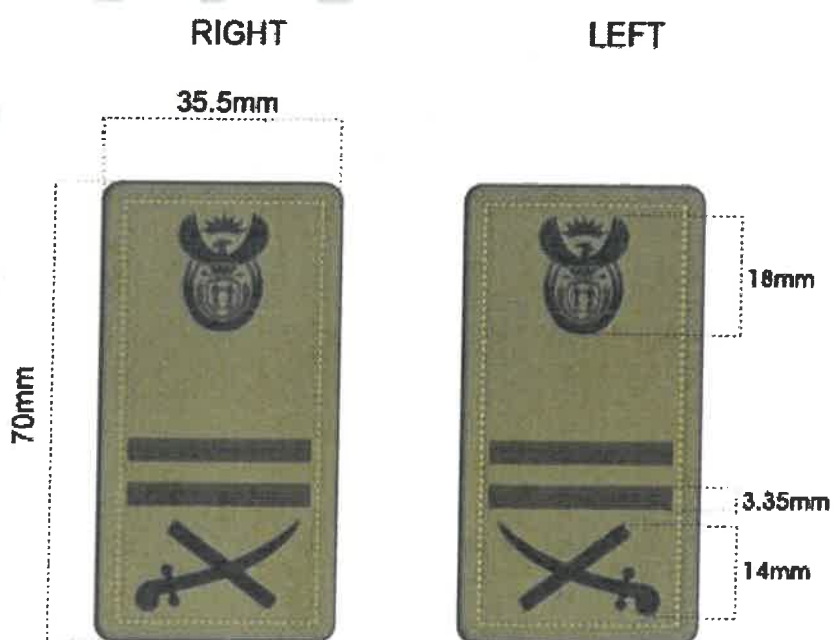
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9.PROFILES FOR GENERAL OFFICERS

9.1 Brigadier General

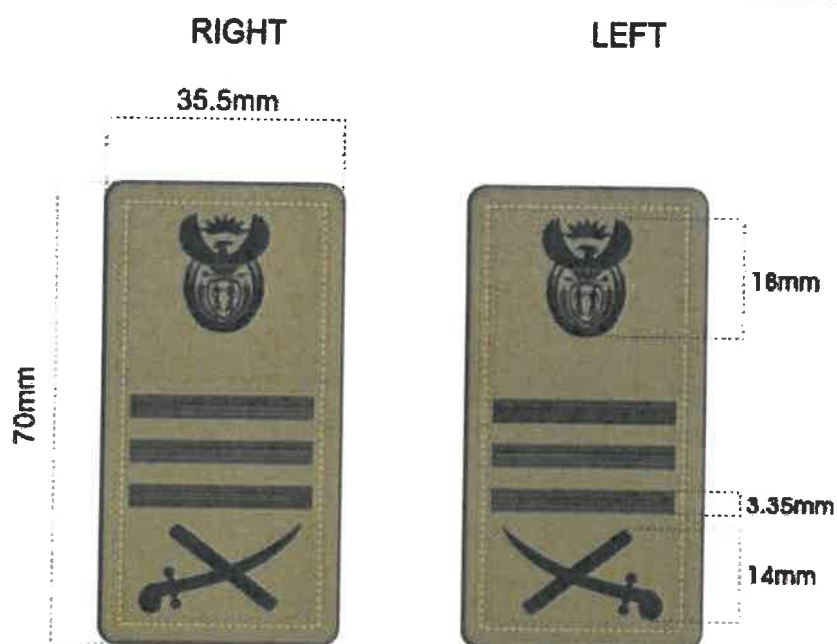


9.2 Major General

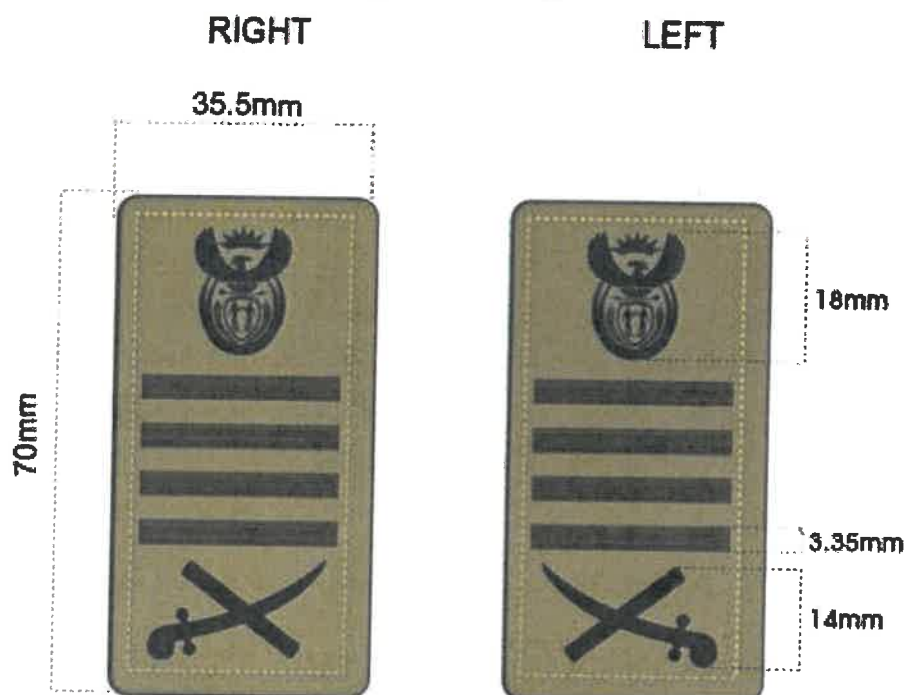


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9.3 Lieutenant General



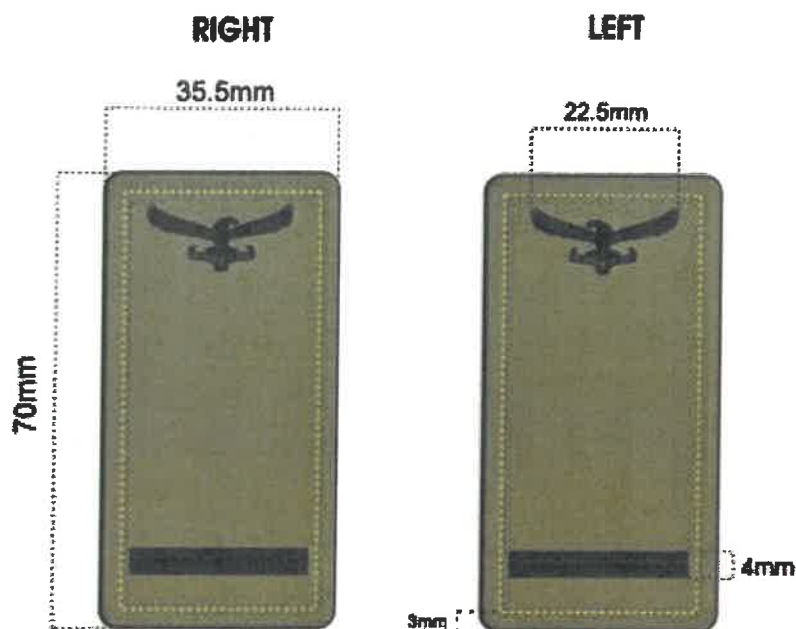
9.4 General



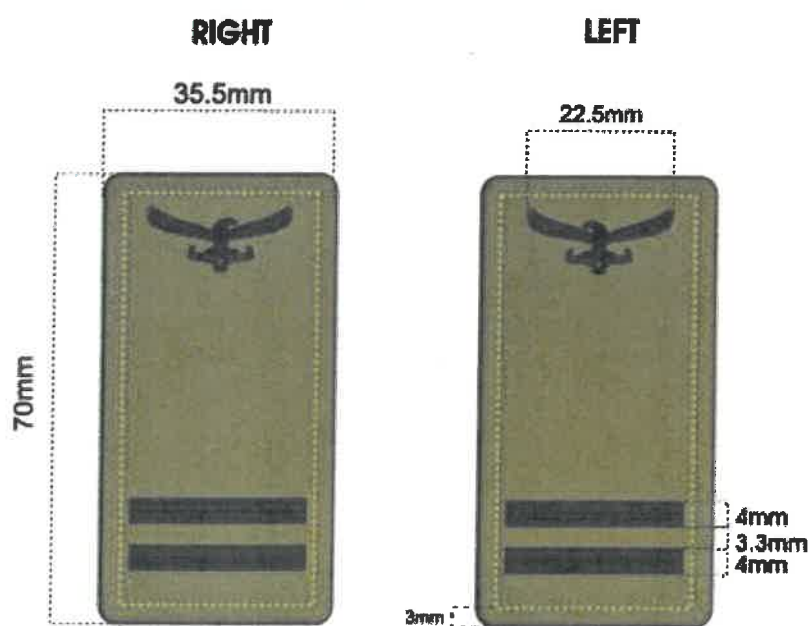
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10.PROFILES FOR OFFICERS

10.1 2nd LIEUTENANT

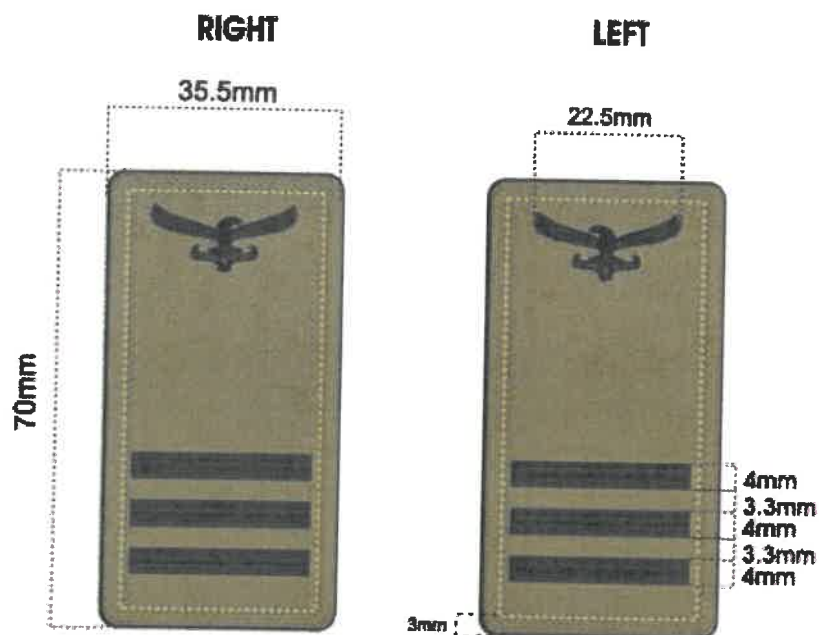


10.2 LIEUTENANT

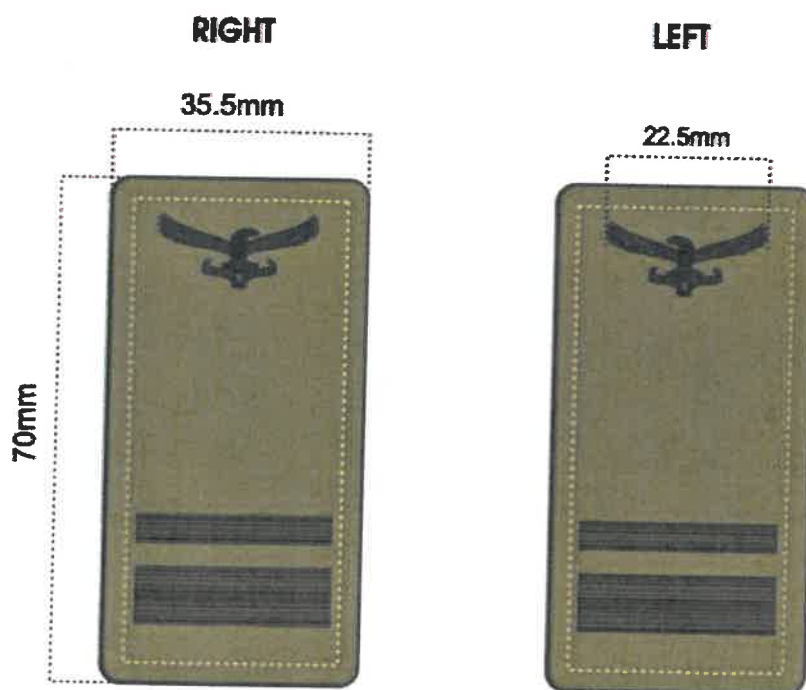


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10.3 CAPTAIN

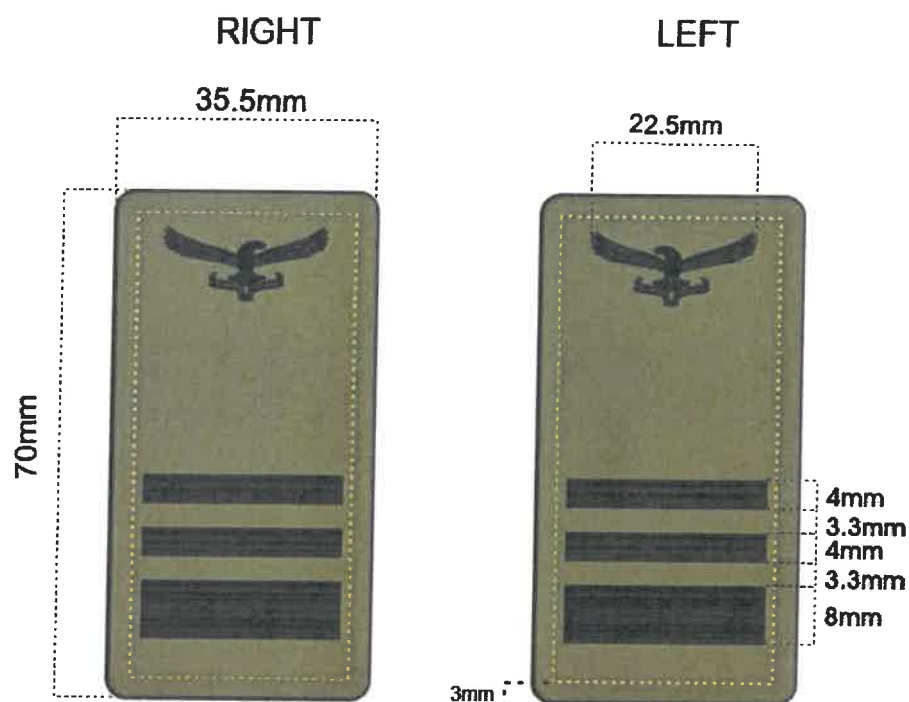


10.4 MAJOR

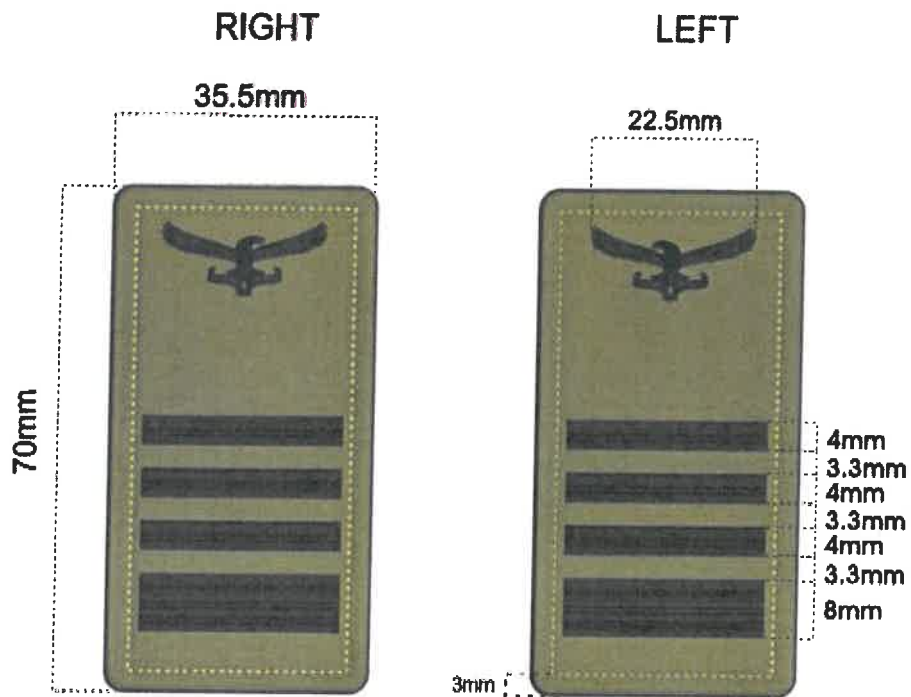


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10.5 LIEUTENANT COLONEL



10.6 COLONEL



NOTE: When required, the embossed design for Colonel Chaplains collar rank insignia shall be as agreed upon between the SAAF and the successful bidder.

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11. PROFILES FOR WARRANT OFFICERS

11.1 WO2

1.5mm
(mock wire
embroidered
borderline)

43mm



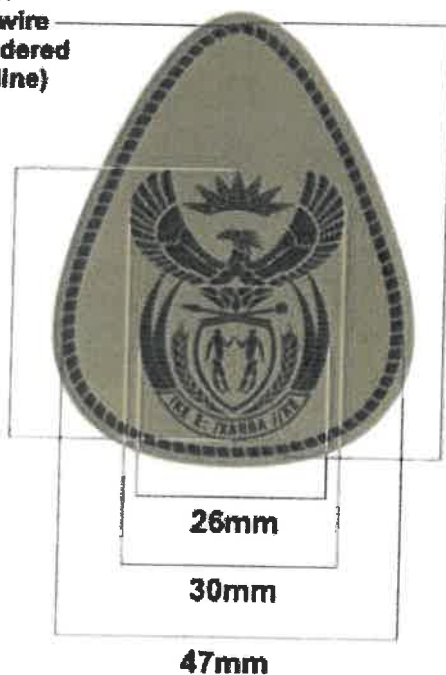
60mm



11.2 WO1

1.5mm
(mock wire
embroidered
borderline)

37mm



60mm



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11.3 WO1 LEVEL 4/SWO

1.5mm
(mock wire
embroidered
borderline)

37mm



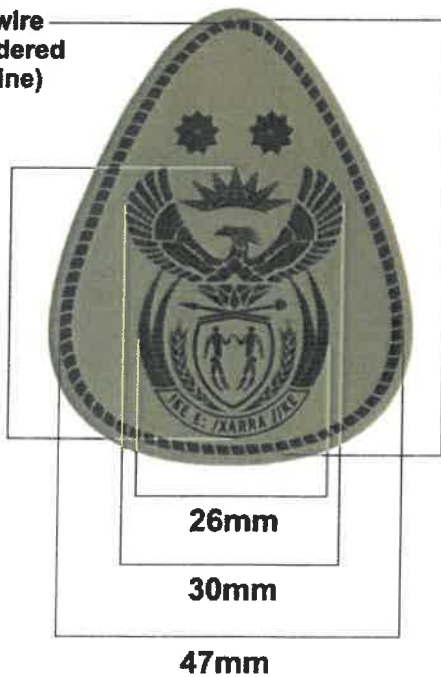
60mm



11.4 WO1 LEVEL 4A/MWO

1.5mm
(mock wire
embroidered
borderline)

37mm



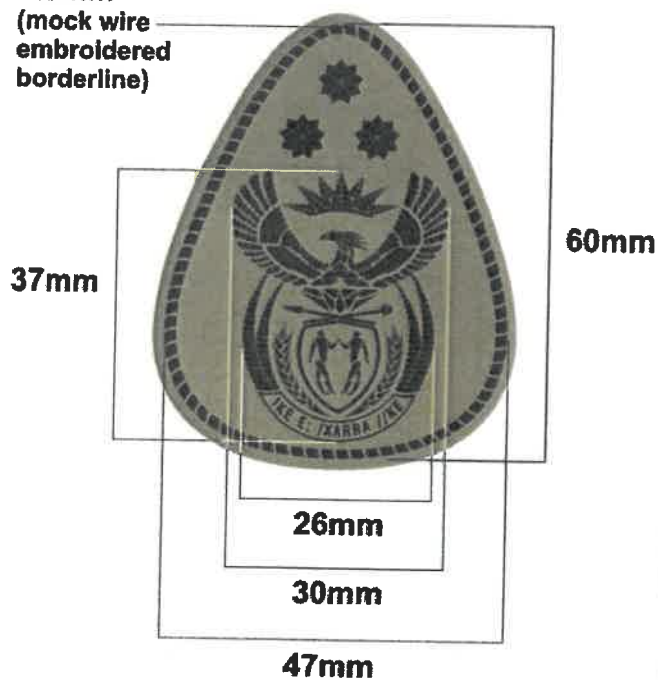
60mm



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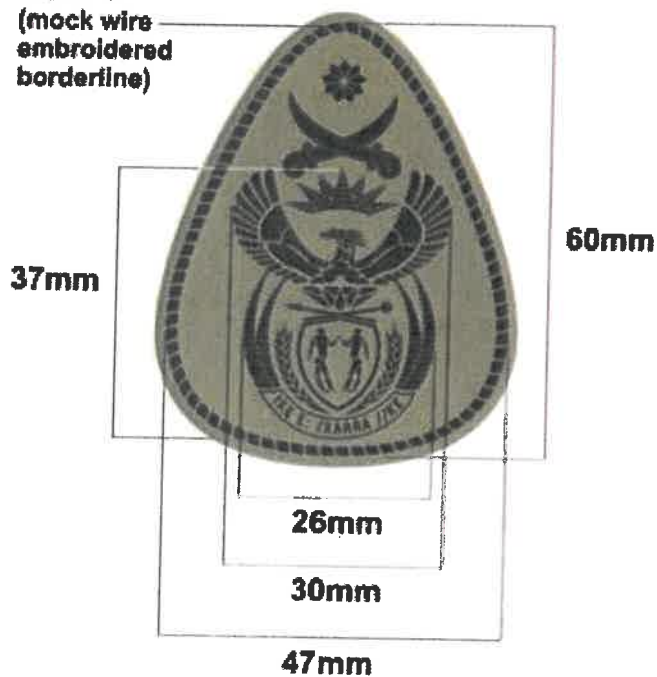
11.5 WO1 LEVEL 3/CWO

1.5mm
(mock wire
embroidered
borderline)



11.6 WO1 LEVEL 2/SCWO

1.5mm
(mock wire
embroidered
borderline)



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11.7 WO1 LEVEL 1/MCWO

1.5mm
(mock wire
embroidered
borderline)

37mm

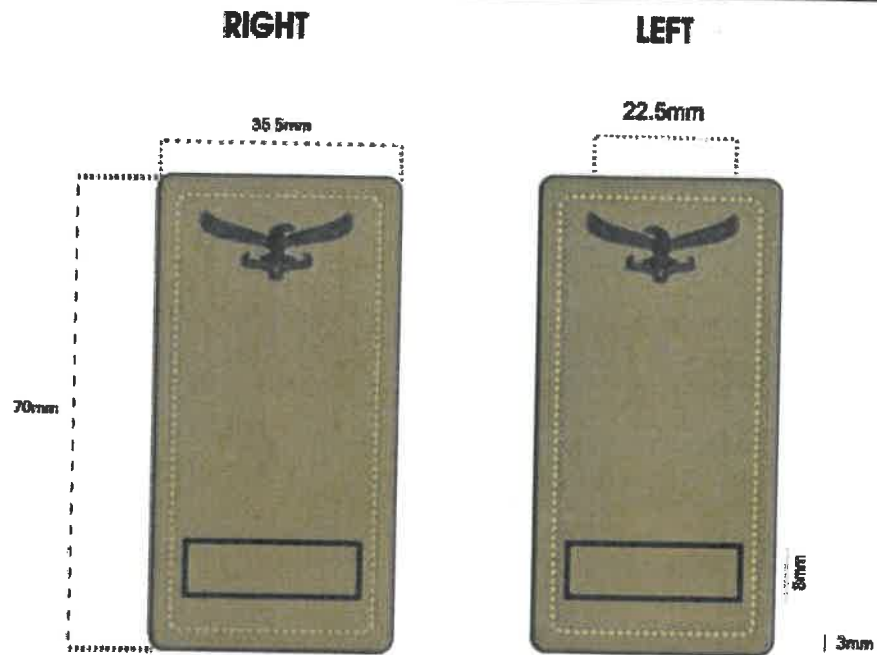


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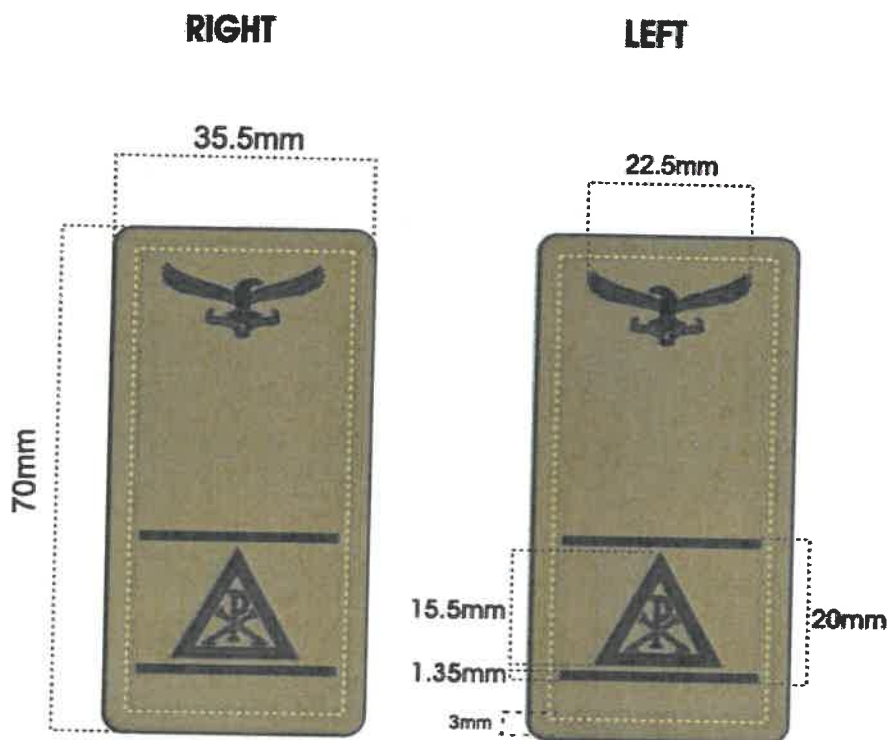


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12.PROFILES FOR CANDIDATE OFFICERS



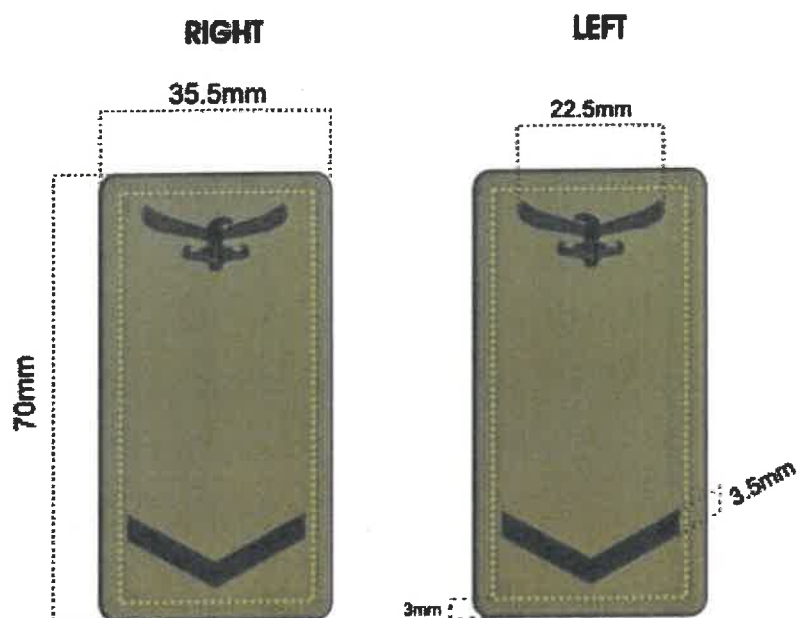
13.PROFILES FOR CHAPLAINS



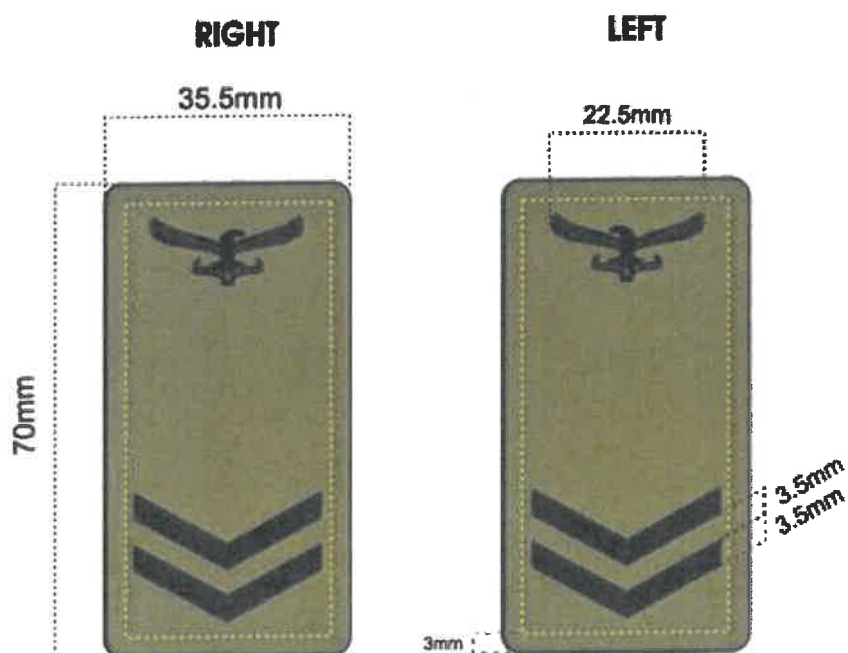
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14. PROFILES FOR NON-COMMISSIONED OFFICERS

14.1 Lance Corporal

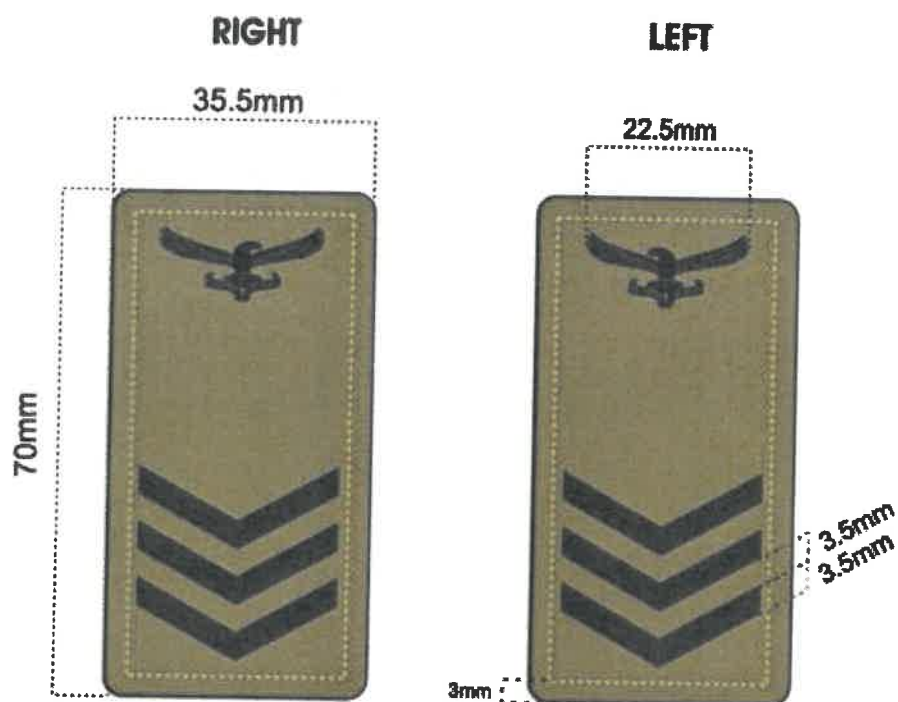


14.2 Corporal

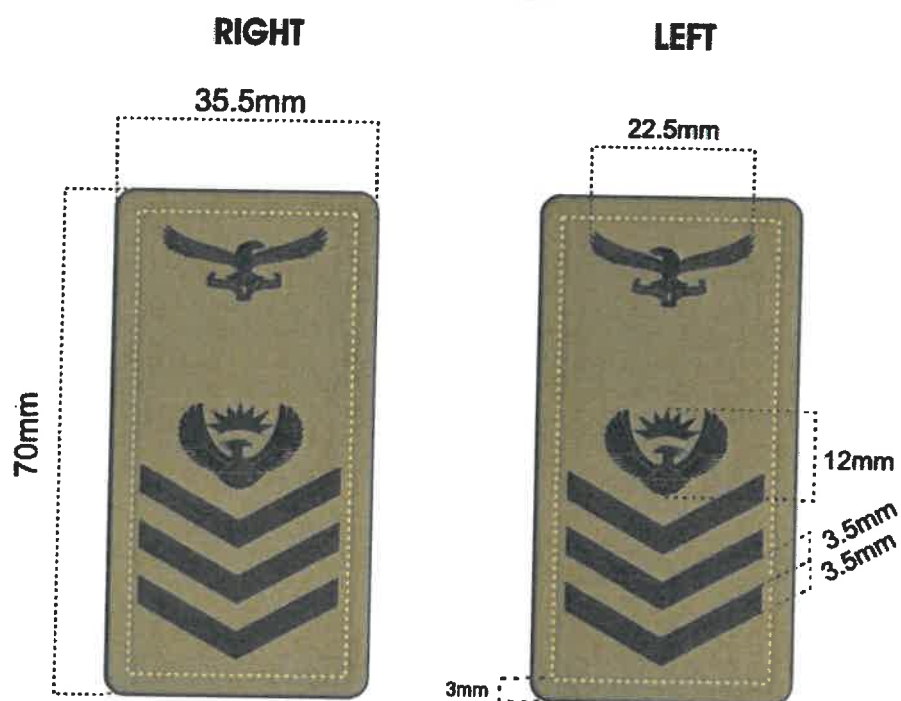


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14.3 Sergeant



14.4 Flight Sergeant



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15. Packing and marking

15.1 Packing

The collar rank insignia shall be:

- ♦ delivered in a commercially dry condition
- ♦ so packed that they will not be damaged in transit or in storage
- ♦ packed as given in table 6

15.2 Marking

15.2.1 Small plastics envelopes

Small plastics envelopes to have a label clearly showing the following information:

- ♦ the manufacturer's name or trade mark or both
- ♦ the year of manufacture
- ♦ the National Stock Number (NSN)

15.2.2 Bulk containers

Each bulk container to have a label securely attached to the outside visible when the containers are stacked and providing the following information in legible and indelible marking:

- ♦ the manufacturer's name or trade mark or both
- ♦ the designation
- ♦ the rank
- ♦ the quantity
- ♦ the number of the order or contract (or both)
- ♦ the year of manufacture
- ♦ order number(s)
- ♦ the inspection certificate number
- ♦ the National Stock Number (NSN)

Table 6 – Packaging requirements

1		2
PACKAGING MATERIAL ^a		CONTAINING ^b
A.	Small plastics envelope with a pull and press opening	1 pair (of the same rank). The pair to incorporate:
		Left and a right facing Eagle (WHERE APPLICABLE).
		Left and a right facing Secretary bird (where applicable).
		Mirror images of sword-and-baton combination and knobkierie-and-spear combination (where applicable).
		Four or six clutches, as appropriate.
		Leaflet with attachment instructions (see Annex A).
B.	Bulk container for transit	Envelopes of A
	B.1 Large quantities: bulk containers to comply with the requirements of SALM 108	
	B.2 Small quantities: bulk containers to have a maximum height of 288 ± 3 mm	
^a Of suitable size and shape.		
^b Of the same designation and rank.		

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15.3 Additional marking

When so required by the South African Air Force, embossed collar rank insignia, envelopes or containers (or any combination of these) to bear information additional to that specified above.

16. Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this specification. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of a standard, parties to agreements based on this specification are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards may be obtained from SABS Standards Division¹.

AATCC method 20, *Fiber analysis: Qualitative*. Available from World Wide Web
<http://www.aatcc.org/Technical Test Methods/scopes/tm20.cfm>

CKS 129, *Colours for textiles*.

SALM 108, *Corrugated board boxes for clothing*.

SANS 70, *Conditioning of textiles and standard temperate atmosphere for determining their physical and mechanical properties*.

SANS 105-B02/ISO 105-B02, *Textiles - Tests for colour fastness Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*.

SANS 105-C10/ISO 105-C10, *Textiles – Tests for colour fastness – Part C10: Colour fastness to washing with soap or soap and soda*.

SANS 105-D01, *Textiles – Tests for colour fastness – Part D01: Colour fastness to dry-cleaning*.

SANS 5385, *Mass per unit area of conditioned knitted textiles*.

SANS 10076-4, *The assessment of defects in textile piece-goods and made-up articles Part 4: Defects in knitted piece-goods*.

¹ SABS: Tel. +27 (0) 12 4287911
www.sabs.co.za

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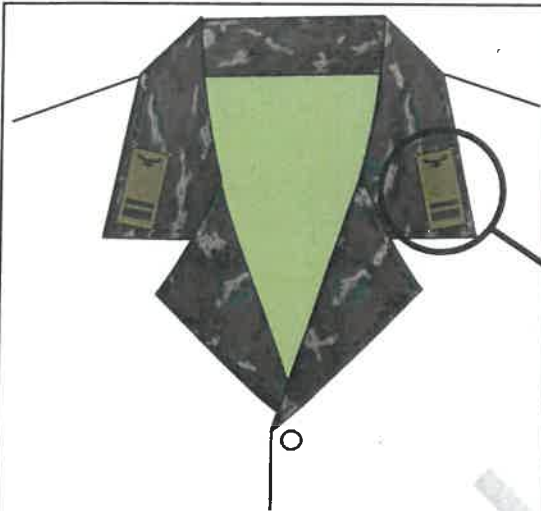
ANNEX A

(Normative)

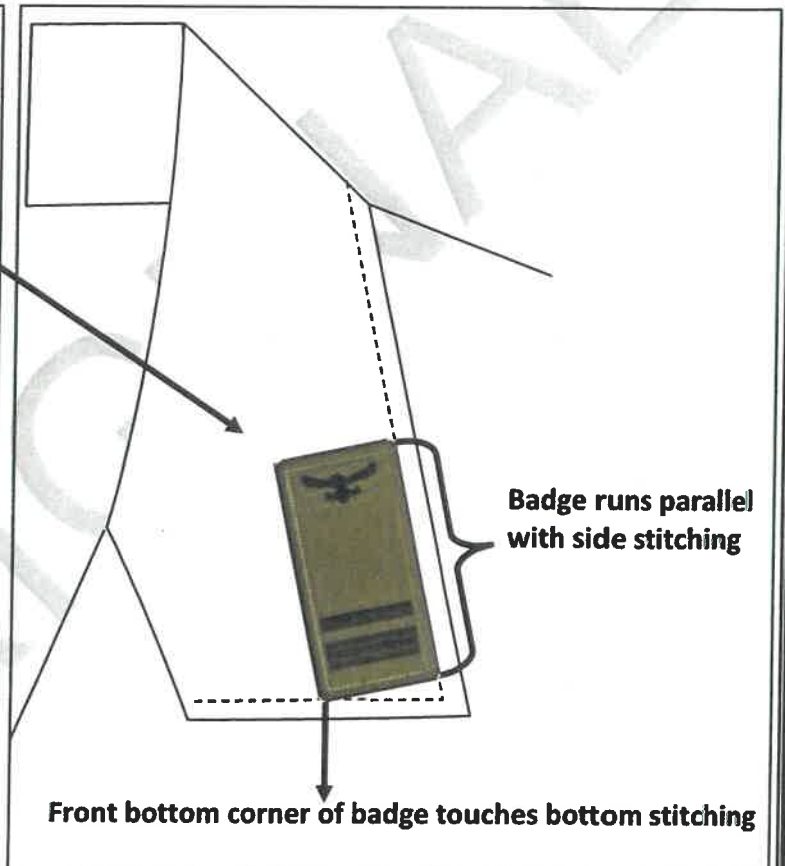
INSTRUCTION LEAFLET:

Positioning of Camouflage Rank Insignia for Uniform Members

POSITIONING OF COLLAR RANK INSIGNIA



NOTE: Birds face inward
towards each other



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ANNEX B

(Normative)

Special conditions of tender

B-1 GENERAL

- B-1.1** Unless otherwise stated, the South African Air Force or an appointed SANAS accredited inspection body shall be the inspecting authority.
- B-1.2** Three pre-production sample pairs of badges, shall have been inspected, tested and approved by the inspecting authority before bulk production is commenced. Each one of these samples shall be accompanied by a trim chart containing a sample of each component material (as given in 4) and the relevant certificates. It shall be the duty of the manufacturer to give adequate notice to the inspecting authority of the availability of these samples.
- B-1.3** The badges shall be subject to inspection during the course of manufacture. The inspector shall, during normal working hours, be given all reasonable facilities for carrying out his duties and shall have the right of entry into the contractor's factory and the factory or works of any subcontractor where work on badges supplied to this specification may be in progress
- B-1.4** The contractor shall inspect the finished badges for compliance with the specification before submitting them to the inspecting authority for final inspection.
- B-1.5** Before acceptance, the badges shall have been inspected and tested by the inspecting authority and found to comply with the requirements of the specification.

B-2 DOCUMENTATION

One container of each consignment shall be marked "DOCUMENTS" and in addition to the badges, shall contain the following:

- a) The packaging slip or delivery note;
- b) where applicable the inspection certificate(s);
- c) a copy of the invoice containing the following information:
 - the order number
 - the financial authority number
 - a full description of the consignment, i.e. National Stock Number, quantity, etc

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ANNEX C

(Normative)

CKS 129 Colours

Due to the fact that colours can change over a period of time, any colour standard which has been registered for a period of SEVEN YEARS or more shall be considered obsolete. These standards shall then be allocated an archived status (as opposed to current status) and re-registration shall be required.

NOTE: *Before fabric is sent to the Inspection Authority for colour registration purposes, the successful bidder shall confirm with the Inspection Authority whether a submission is required or not.*

A. The following scenarios require a submission of three metres of fabric from the successful bidder:

1. A colour standard is archived.
2. First time registration is required (CKS 129 colour number does not exist).
3. The custodian of the CKS 129 library is out of stock.

B. Requirements for the submission of fabric as identified in A:

1. The colour shall be as agreed upon between the South African Air Force and the successful bidder.
2. The fabric shall be used to make new colour swatches which shall be the responsibility of the custodian of the CKS 129 library.
3. The cost of the three metres of fabric shall be incorporated in the relevant bid submission.

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For office use only		
HISTORY SHEET		
VERSION	DATE	AMENDMENTS/HISTORY
00.1	April 2018	Combine SALM 626 and camouflage collar badges of SALM 570. Change colours; All embossing to be black Omit Colonel Chaplain rank (due to colour issues) First draft
00.2	August 2018	Add black on thatch beige on cover page.
00.3	August 2018	Add reference and NSN for rank of Colonel Chaplain
01.0	August 2018	First release
02.0	September 2018	Corrected reference to number of pins at the back

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PRIVATE SPECIFICATION

Prepared for the

South African Air Force



EMBOSSSED RANK INSIGNIA

for

CEREMONIAL DRESS

SERVICE DRESS

MESS DRESS

PROTECTIVE DRESS

FLYING COVERALLS

of

Warrant Officers:

WO2 & WO1

WO1 Level 4/SWO

WO1 Level 4a/MWO

WO1 Level 3/CWO

WO1 Level 2/SCWO

WO1 Level 1/MCWO



SALM 570

Version 13.0/November 2023

1. Scope

This specification covers the material, design and make of embossed rank insignia for warrant officers of the South African Air Force.

The ranks covered by this specification are as follows:

- a) WO2
- b) WO1
- c) WO1 Level 4/Senior Warrant Officer (SWO)
- d) WO1 Level 4a/Master Warrant Officer (MWO)
- e) WO1 Level 3/Chief Warrant Officer (CWO)
- f) WO1 Level 2/Senior Chief Warrant Officer (SCWO)
- g) WO1 Level 1/Master Chief Warrant Officer (MCWO)

The applicable uniform type variations covered by this specification are as follows:

- a) Ceremonial Dress (Sleeve badge)
- b) Service dress (Shoulder board)
- c) Mess Dress (Sleeve badge)
- d) Protective Dress (Chest badge)
- e) Flying Coveralls (Chest badge)

NOTE: Various National and International patents may apply.

2. Definitions and Abbreviations

For the purposes of this specification, the following definitions apply:

Acceptable: Acceptable to the South African Air Force.

Nominal: Subject to the tolerances normal to good manufacturing practice.

NSN: National Stock Number as reflected as Item Number on a Government Order.

3. General

No materials will be supplied by the South African Air Force.

The materials as specified in paragraphs 4.1 to 4.7 shall be supplied and used by the manufacturer. Trim charts shall accompany the pre-production samples (see Annex A).

National Stock Numbers are given in tables 8 to 12.

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4. Component materials

4.1 Base fabric

- ♦ an acceptable coated high bulk continuous filament knitted fabric
- ♦ to be supplied in two colour variations as given in table 1
- ♦ to comply with the requirements as given in table 2
- ♦ permissible number of defects to comply with the requirements as given in table 3
- ♦ to comply with the requirements as given in 4.1 and 4.2 of table 4

Table 1 – Colour variations of the base fabric

1	2	3		4
Uniform type variation	Application	Colour reference		Colour title
		CKS 129	Pantone	
Ceremonial Dress	Sleeve badge	-	Black	Black
Mess Dress		-	-	-
Protective Dress	Chest badge	2119c-02 ^a	-	SAAF Dark blue
Service Dress	Shoulder board			
Flying Coveralls	Chest badge			

^a A match in terms of SANS 10076-4, The assessment of defects in textile piece-goods and made-up articles Part 4: Defects in knitted piece-goods.

Table 2 – Knitted base fabric requirements

1	2	3
Property	Requirement	SANS number (unless otherwise indicated)
Composition, %		
Nylon ^a	100	AATCC 20
Construction	Knitted interlock ^b and coated with a heat-resistant compound	Visual examination and physical analysis
Mass per area, g/m², min.	260 ^c	5385 ^d
Colour fastness to:		105-C10:2007 Test number C(3)
Washing, rating, min.		
Change in colour	4	
Staining of adjacent fabrics	4	
Dry-cleaning, rating, min.		
Change in colour	4-5	105-D01
Light, rating, min.	4	105-B02

^a High bulk continuous filament yarn.

^b Fine gauge.

^c The mass reflected in column 2 is the mass of the fabric before it has been coated with a heat-resistant compound. The coated fabric shall be of minimum mass 320 g/m² when tested in accordance with SANS 5385.

^d Tested after conditioning in accordance with SANS 70.

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Table 3 – Permissible number of defects of base fabric

1	2	3
Limit of acceptable quality	Requirement	SANS Number
LAQ for a piece	10	10076-4
LAQ for a lot	12	10076-4

Table 4 – Pneumatic heat press requirements

1	2	3	4	5
Test area	Time	Pressure	Temperature, min.	Requirement
4.1 Coated surface	30 seconds	2 bar	280° C	To retain original shape and texture
4.2 Knitted surface	30 seconds	2 bar	230° C	To retain original shape
4.3 Indentation groove	30 seconds	2 bar	250° C	To retain original shape and depth
4.4 Embossing and flat print material	30 seconds	2 bar	280° C	To retain original shape

4.2 Adhesive Compound Filler

- ♦ used as a filler between the two layers of outer material (fused together)
- ♦ a heat resistant compound
- ♦ an acceptable co-polymer (synthetic) rubber paint compound adhesive
- ♦ minimum mass of 90 g/m²
- ♦ to be able to withstand the conditions as specified in 4.1 (columns 2 to 5) of table 4

4.3 Embossing and flat print material

- ♦ a rubber paint compound
- ♦ to be able to withstand the conditions as specified in 4.4 (columns 2 to 5) of table 4
- ♦ to have the same colour fastness properties as specified for the base fabric
- ♦ colours to be as given in 4.3.1, 4.3.2 and sections 11 to 14

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4.3.1 Identification of embossing and flat print material of Ceremonial, Service and Mess Dress

Table 5 – Colours of embossed and flat print materials of Ceremonial, Service and Mess Dress

1	2	3	4	5
Type of print material	Component of design	Colour reference	Colour No.	Colour title
5.1 Embossing material	Elephant tusks Knobkierie & spear Ears of wheat Secretary bird Inner triangles of protea Rising sun Nine point stars Crossed swords Mock wire border line of badge Lettering of motto and border of motto scroll Human figures Outline of shield	CKS 129	868c-08	SAAF Gold Mother of Pearl
5.2 Flat print	Background of shield	Pantone	873c	Light gold
5.3	Top triangle of red in protea	CKS 129	2203c-96	National Flag Red (Printed)
5.4	Background of motto Bottom leaves of the protea Top outer triangles of protea	CKS 129	2205c-96	National Flag green (Printed)

4.3.1.1 Identification of embossed sections of Ceremonial, Service and Mess Dress

The following sections, as well as the mock wire embroidered borderline shall be of embossed material.



Colour No. 868c-08 SAAF Gold Mother of Pearl of CKS 129

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4.3.1.2 Identification of flat print sections of Ceremonial, Service and Mess Dress



Pantone Colour No. 873c Light gold



Colour No 2203c-96 National Flag Red of CKS 129



Colour No 2205c-96 National Flag Green of CKS 129

4.3.2 Identification of embossing and flat print material of Protective Dress and Flying Coveralls

Table 6 – Colours of embossing and flat print material on Protective dress and Flying Coveralls

1	2	3	4	5.
Type of print material	Component of design	Colour reference	Colour No.	Colour title
6.1	Embossing material	Full Coat of Arms Stars Inner three triangles Crossed swords	CKS 129	882c-08 SAAF Blue Mother of Pearl
6.2	Flat print	Background of shield Background of full triangle of protea Background of motto	Pantone 652c	Light blue

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4.3.2.1 Identification of embossed sections of Protective and Flying Coveralls

The following sections, as well as the mock wire embroidered borderline shall be of embossed material.



Colour No 882c-08 SAAF Blue Mother of Pearl of CKS 129

4.3.2.2 Identification of flat print sections of Protective and Flying Coveralls



Pantone Colour No.652c Light blue

4.4 Non-PVC Polyester film

- ♦ an acceptable non-PVC Polyester film
- ♦ to be of minimum 200 μm

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4.5 Adhesive backing film

4.5.1 General requirements of adhesive backing film:

- ♦ a hot melt compound
- ♦ an acceptable co-polymer adhesive
- ♦ of minimum mass 60 g/m²
- ♦ to be suitable to be applied to the back of the badge in order to fuse the badge to the relevant garment
- ♦ fused to a garment by means of a heat transfer press

4.5.2 Performance of adhesive backing film after being fused to the badge:

- ♦ to comply with the requirements as given in column 4 of table 7 when the heat transfer press is applied as specified in columns 1 to 3 of table 7

Table 7 – Heat transfer press application

1	2	3	4
Time	Pressure	Temperature	Requirement
15 - 40 seconds	1 - 4 bar	180° C - 190° C	Badge not to separate from garment when washed for 10 cycles at 60° C

4.6 Fastening Pins

Note: This component is not applicable to Service Dress boards and Flying Coverall chest badges.

- ♦ be steel pins and of dimensions (and tolerances) to be as given in figure 1
- ♦ sharp point shall be free from burrs
- ♦ shall have one or more grooves or serrations on the pointed end as to allow effective engagement of the clutch
- ♦ so positioned as to give a firm lay of the rank insignia on the uniform fabric
- ♦ WO2 to be fitted with two pins at the back of the badge (see section 9)
- ♦ WO1, WO1 Level 4(SWO) to WO1 Level 1(MCWO) to be fitted with three pins at the back (see sections 9)

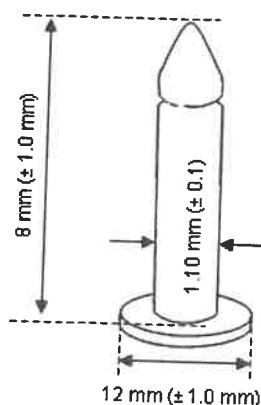


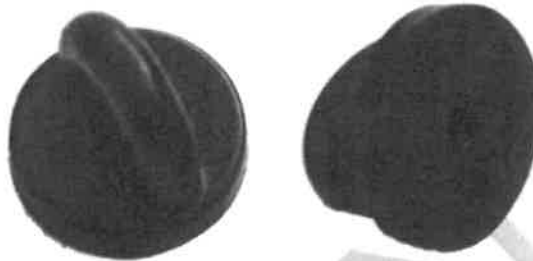
Figure 1 – Dimensions of pins

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4.7 Clutch

Note: This component is not applicable to Service Dress and Flying Coverall chest badges.

- ♦ acceptable rubber PVC clutches
- ♦ design to be as given in figure below
- ♦ nominal diameter of base to be 11 mm
- ♦ colour to be black or white
- ♦ the diameter of the shaft (centre hole) shall be such as to permit full and secure engagement of the prong



5. Workmanship

Each badge/shoulder board shall be:

- ♦ cut, made and embossed with first-class workmanship throughout
- ♦ of uniform and acceptable make, colour and finish

Each badge/shoulder board shall be free from:

- ♦ defects, that affect the appearance or may affect their serviceability (or both)
- ♦ marks
- ♦ spots
- ♦ stains, incurred in the making-up

All badge edges shall be:

- ♦ neatly double sealed using a cure and press system
- ♦ free from fraying

Badges/shoulder boards shall be:

- ♦ completely durable at all times
- ♦ such that no separation shall occur between the compound and the fabric of the badge/shoulder board

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6. Design and make

6.1 General (applicable to all)

6.1.1 Embossing

- ♦ the face side of each badge/shoulder board shall be embossed with a specified design as specified in the order or contract
- ♦ shall be identical to the attached profiles (See sections 11 to 14)
- ♦ the embossing shall be finished by means of a 3-D effect that has explicit detail
- ♦ all 3-D effects will be sculptured using a mock-wire embroidered effect
- ♦ corner sharpening and engraving will be used throughout as a finish
- ♦ all ranking shall be 100% proportionate in size to the original
- ♦ all ranks, where duplication occurs, will be identical
- ♦ comply with the requirements as given in paragraph 4.3
- ♦ contour effect must be used as a definition and to shape levels
- ♦ shall be such that the multi-level figures are sculptured :
 - 13 levels for the Coat of Arms
 - 9 levels for the SAAF Eagle, star and sword

6.1.2 Construction

- ♦ be constructed from two layers of knitted outer fabric, laminated together with an adhesive compound filler (see 4.2) to stabilise and support the badges/shoulder boards
- ♦ in addition to the two knitted outer material layers, a non-PVC Polyester film (see 4.4) shall be laminated in-between the layers of the outer material
- ♦ have permanent double sealed edges, incorporating a permanent indentation groove
 - sealed with a cure and press system
 - fully heat resistant to ironing at a minimum temperature of 250 °C
 - 3 mm from the edge
 - comply with the requirements as given in 4.3 of Table 4
 - indentation groove on BADGES to comply with the illustration below



6.1.3 The adhesive compound filler (see 4.2) used between the layers of the material and the curing and pressing system must render an article which is:

- ♦ heat resistant to a temperature of a minimum of 280°C
- ♦ machine washable and dry cleanable
- ♦ soft and pliable
- ♦ sealed at the edges

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6.2 Shoulder boards (Service dress)

6.2.1 Embossing

- ♦ embossed with a specific design as given in section 14
- ♦ embossing of the Coat of Arms shall be done on a domed surface
 - dome to be of finished height 4 mm (see paragraph 8.2)

6.2.2 Construction

- ♦ be made according to the dimensions given in sections 8 and 14
- ♦ double sealed edges are indicated with a dotted line on the profile as given in paragraph 8.1

6.2.3 Printing on back of each shoulder board

- ♦ the back surface of each shoulder board shall be clearly printed with either a capital "L" (identifying the left shoulder board) or capital "R" (identifying the right shoulder board) as given in section 8
- ♦ letter to be printed in white, or any other acceptable alternative contrast colour to the base fabric
- ♦ printed in such a way that the embossed Secretary Bird and SAAF eagle shall face forward on the respective shoulder boards when worn

6.2.4 Delivery requirement

- ♦ to be supplied in **pairs**
- ♦ design requirements for pairs:
 - the Secretary bird (that forms part of the Coat of Arms) and SAAF Eagle shall face forward when worn
 - the swords and knobkierie-and-spear combination shall be mirror images of each other
 - the words to be legible on each shoulder board

6.3 Badges (Ceremonial dress and Mess dress)

6.3.1 Embossing

- ♦ embossed with a specific design as given in sections 11 and 12

6.3.2 Construction

- ♦ be made according to the dimensions given in sections 11 and 12
- ♦ the underside of each badge shall be fitted with fastening pins, laminated between the two layers of knitted material (see section 9)

6.3.3 Printing on back of each badge

- ♦ the back surface of each badge shall be clearly printed with either a capital "L" (identifying the left badge) or capital "R" (identifying the right badge)
- ♦ letter to be printed in white, or any other acceptable alternative contrast colour to the base fabric

6.3.4 Delivery requirement

- ♦ to be supplied in **pairs**
- ♦ design requirements for pairs:
 - the Secretary bird (that forms part of the Coat of Arms) and SAAF Eagle shall face forward when worn
 - the swords and knobkierie-and-spear combination shall be mirror images of each other

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- the words to be legible on each badge

6.4 Badges (Protective dress)

6.4.1 Embossing

- ♦ embossed with a specific design as given in section 13

6.4.2 Construction

- ♦ be made according to the dimensions given in section 13
- ♦ the underside of each badge shall be fitted with fastening pins, laminated between the two layers of knitted material (see section 9)

6.4.3 Delivery requirement

- ♦ to be supplied as **singles**
- ♦ design requirements for singles
 - the Secretary bird (that forms part of the Coat of Arms) and SAAF Eagle shall face to the right when badges are worn on the left
 - the words to be legible on each badge

6.5 Badges (Flying Coveralls)

6.5.1 Embossing

- ♦ embossed with a specific design as given in section 13

6.5.2 Construction

- ♦ fitted with an adhesive backing film (**see 4.5**) that is attached to the back of each badge to facilitate the iron-on process
- ♦ be made according to the dimensions given in section 13

6.5.3 Delivery requirement

- ♦ to be supplied as **singles**
- ♦ design requirements for singles
 - the Secretary bird (that forms part of the Coat of Arms) and SAAF Eagle shall face to the right when badges are worn on the left
 - the words to be legible on each badge

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7. Rank insignia variations

Table 8 – Ceremonial dress variations

1	2	3	4	5	6
National Stock Number	Rank	Dimensions	Shape	Application	Attachment method
18-097-6523	WO2	See 11.1	Oval	Sleeve badge	Pins and clutches
18-097-6524	WO1	See 11.2 – 11.7	Teardrop		
18-097-6572	WO1 Level 4				
18-097-6570	WO1 Level 4 a				
18-097-6582	WO1 Level 3				
18-097-6583	WO1 Level 2				
TBD	WO1 Level 1				

Table 9 – Mess dress variations

1	2	3	4	5	6
National Stock Number	Rank	Dimensions	Shape	Application	Attachment method
18-097-6792	WO2	See 12.1	Oval	Sleeve badge	Pins and clutches
18-097-6793	WO1	See 12.2 – 12.7	Teardrop		
18-097-6802	WO1 Level 4				
18-097-6794	WO1 Level 4 a				
18-097-6796	WO1 Level 3				
18-097-6800	WO1 Level 2				
18-097-6798	WO1 Level 1				

Table 10 – Protective dress variations

1	2	3	4	5	6
National Stock Number	Rank	Dimensions	Shape	Application	Attachment method
18-097-6788	WO2	See 13.1	Oval	Chest badge	Pins and clutches
18-097-6801	WO1	See 13.2 – 13.7	Teardrop		
18-097-6789	WO1 Level 4				
18-097-6797	WO1 Level 4 a				
18-097-6790	WO1 Level 3				
18-097-6791	WO1 Level 2				
TBD	WO1 Level 1				

Ref. No	Date	Responsibility	Version	No. of pages
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Table 11 – Service dress variations

1	2	3	4	5	6
National Stock Number	Rank	Dimensions of domed section	Shape of embossed design (excluding the SAAF eagle)	Application	Attachment method
18-181-8588	WO2	See 14.1	Oval on domed surface	Shoulder board	Sliding over shoulder strap
18-181-8591	WO1	See 14.2 – 14.7	Teardrop on domed surface		
18-181-8598	WO1 Level 4				
18-181-8595	WO1 Level 4 a				
18-181-8601	WO1 Level 3				
18-181-8603	WO1 Level 2				
TBD	WO1 Level 1				

Table 12 – Flying coverall variations

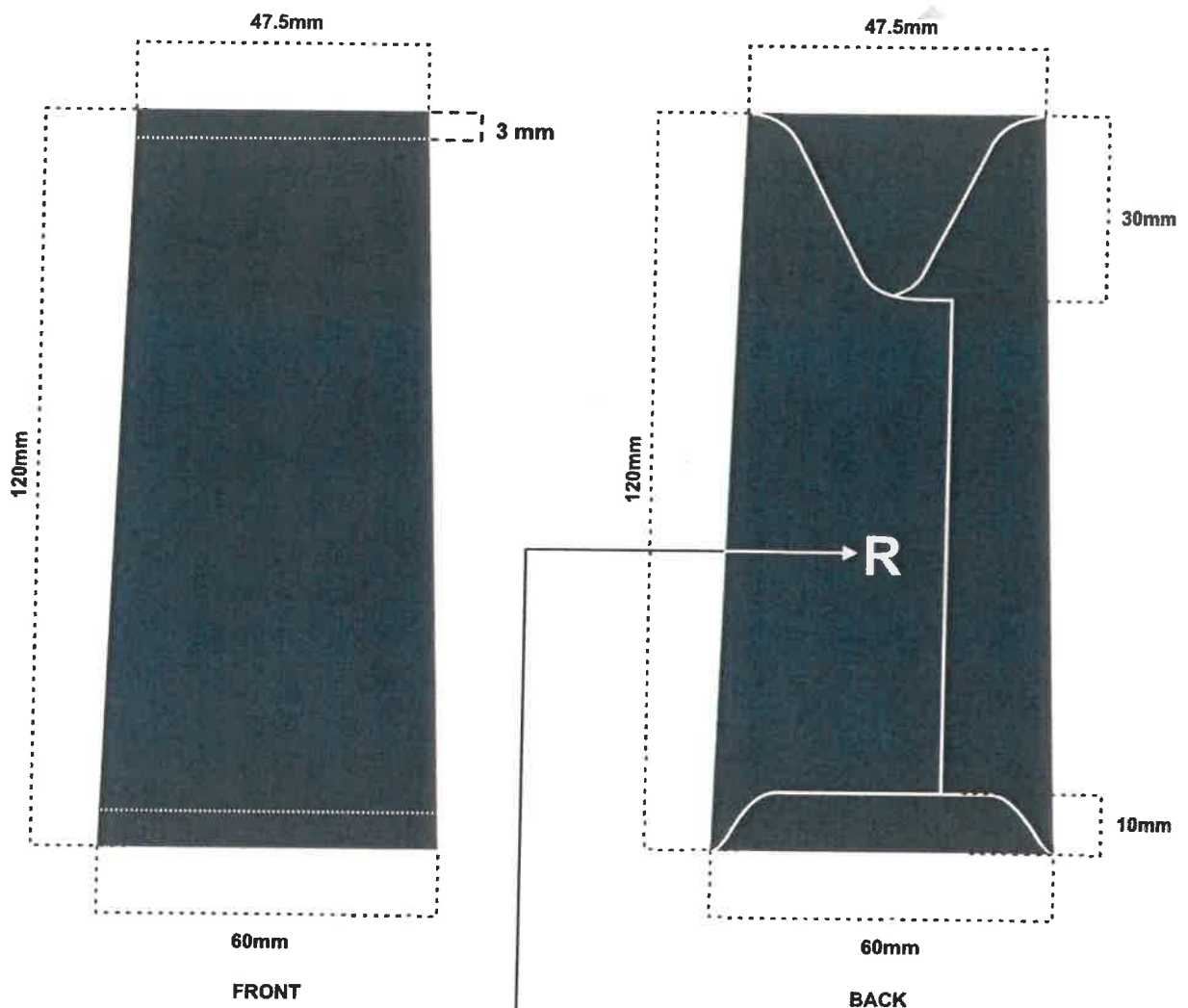
1	2	3	4	5	6
National Stock Number	Rank	Dimensions	Shape	Application	Attachment method
18-186-7228	WO2	See 13.1	Oval	Chest badge	Iron-on
18-186-7227	WO1	See 13.2 ~ 13.7	Teardrop		
18-186-7226	WO1 Level 4				
18-186-7225	WO1 Level 4 a				
18-186-7223	WO1 Level 3				
18-186-7221	WO1 Level 2				
TBD	WO1 Level 1				

Ref. No	Date	Responsibility	Version	No. of pages
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8. Shoulder board design

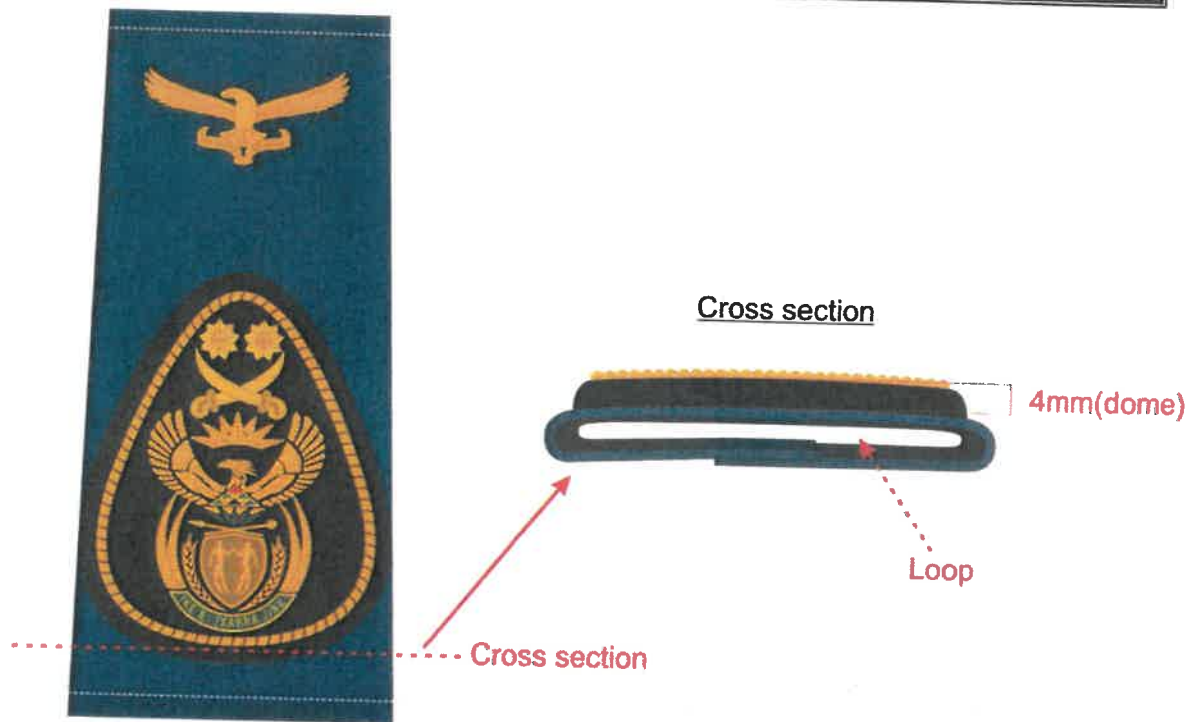
8.1 Shoulder board dimensions

These profiles are applicable to **SERVICE DRESS** only.



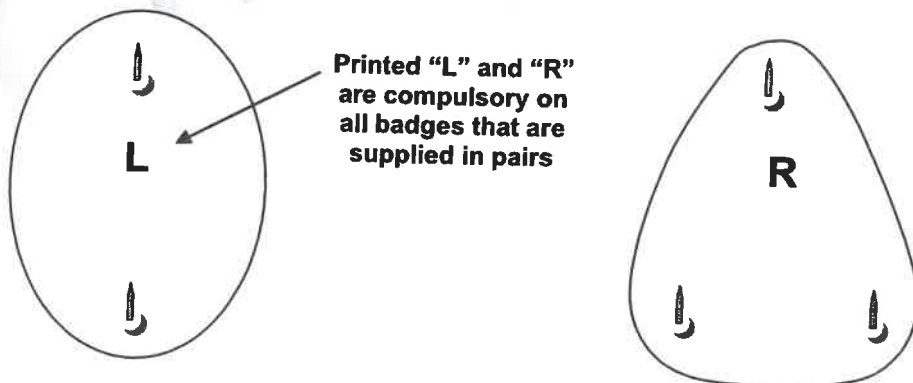
Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	15 of 51

8.2 Shoulder board construction & domed surface



9. Pin positioning

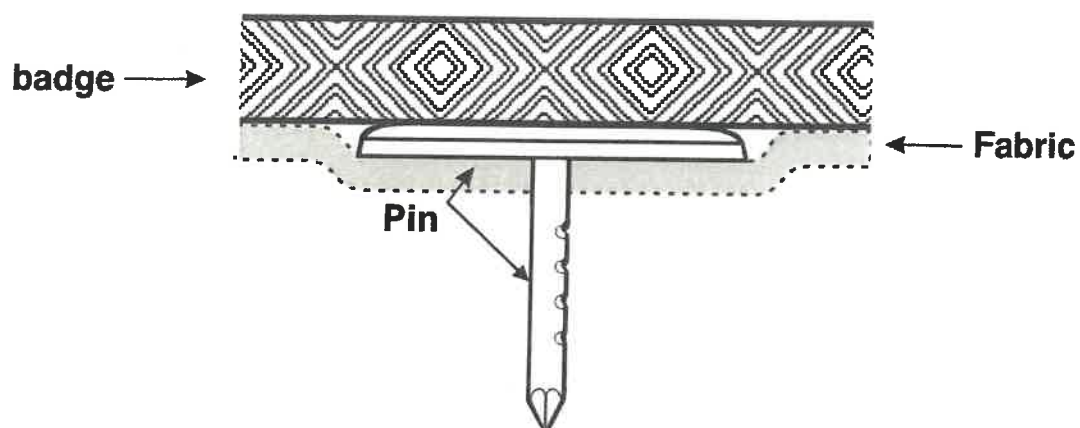
These profiles are applicable to badges for Ceremonial Dress, Mess Dress and Protective Dress.



Rear view of badge: WO2

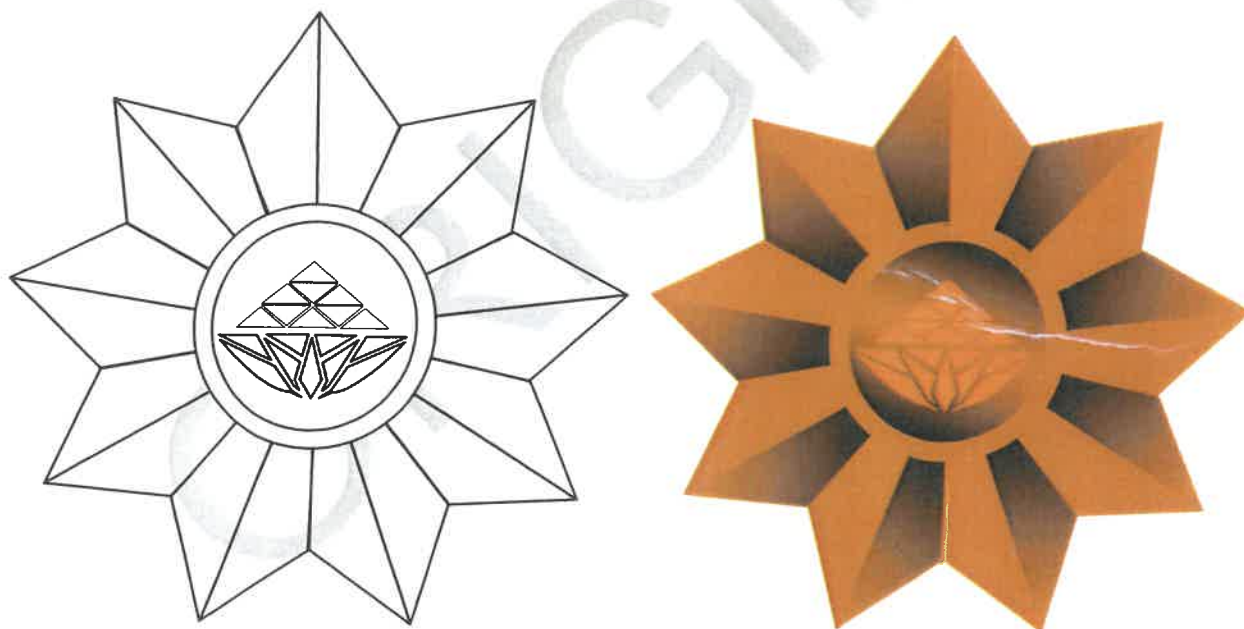
Rear view of badge: WO1, WO1 Level 4 (SWO) to Level 1 (MCWO)

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	16 of 51



10. Nine point star

Each nine point star that appears on the insignia shall have an embossed protea in the centre (as given in the illustration below)

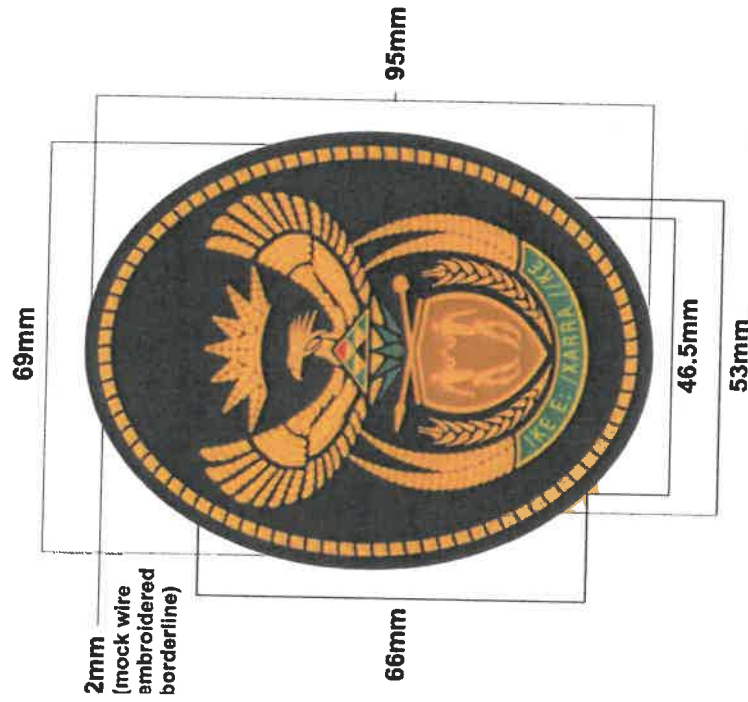


NOTE: The above illustrations do not reflect the actual size of the design.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	17 of 51

11.RANK INSIGNIA FOR CEREMONIAL DRESS

11.1 Ceremonial dress - WO2



FABRIC



Black

FLAT



Red

No. 2203c/96 of CKS129



Green

No. 2205c/96 of CKS129



Gold

Pantone 873c

EMBOSSED



SAAF Gold

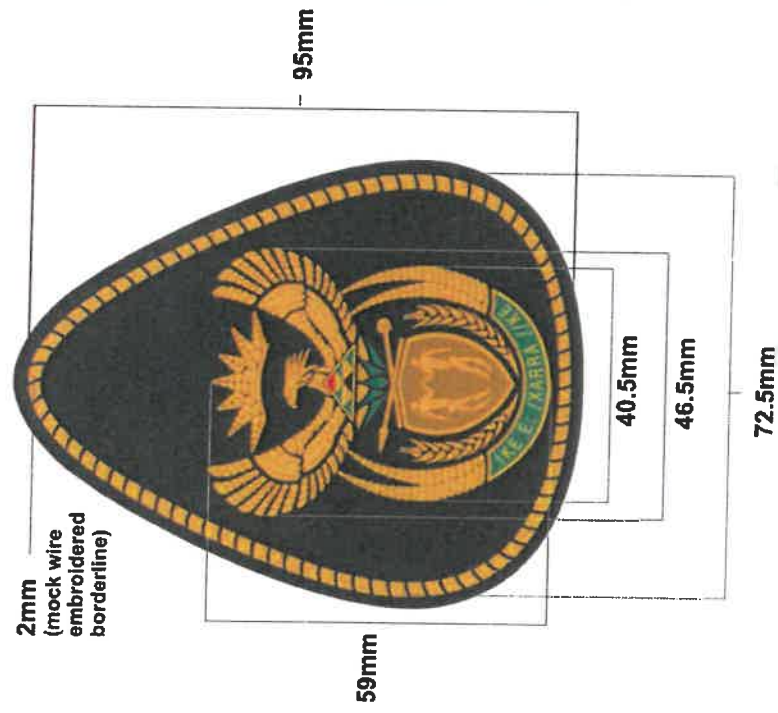
Mother of Pearl

No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	Page 18 of 51

11.2 Ceremonial dress - WO1



FABRIC



FLAT



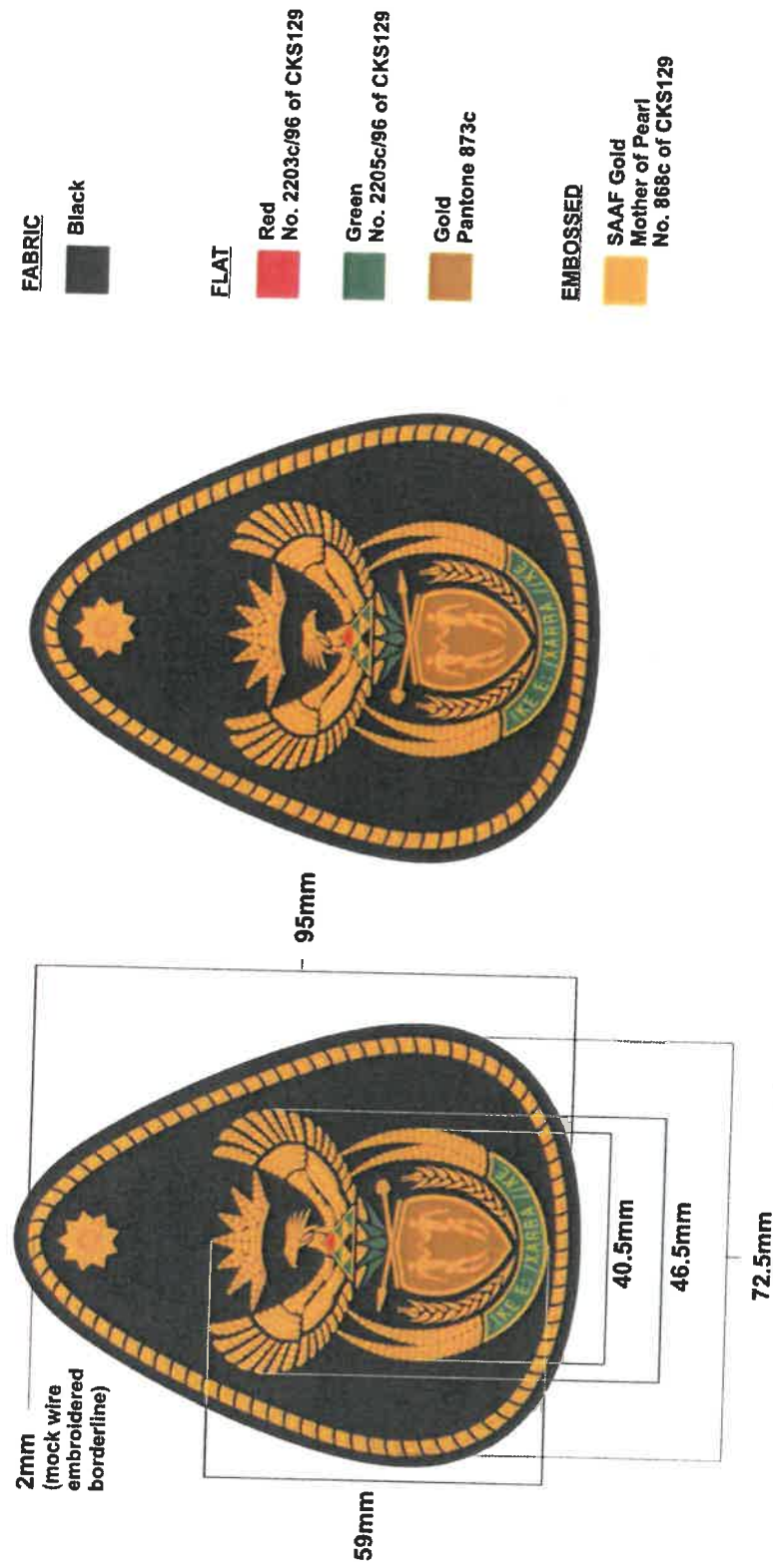
EMBOSSED



NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	19 of 51

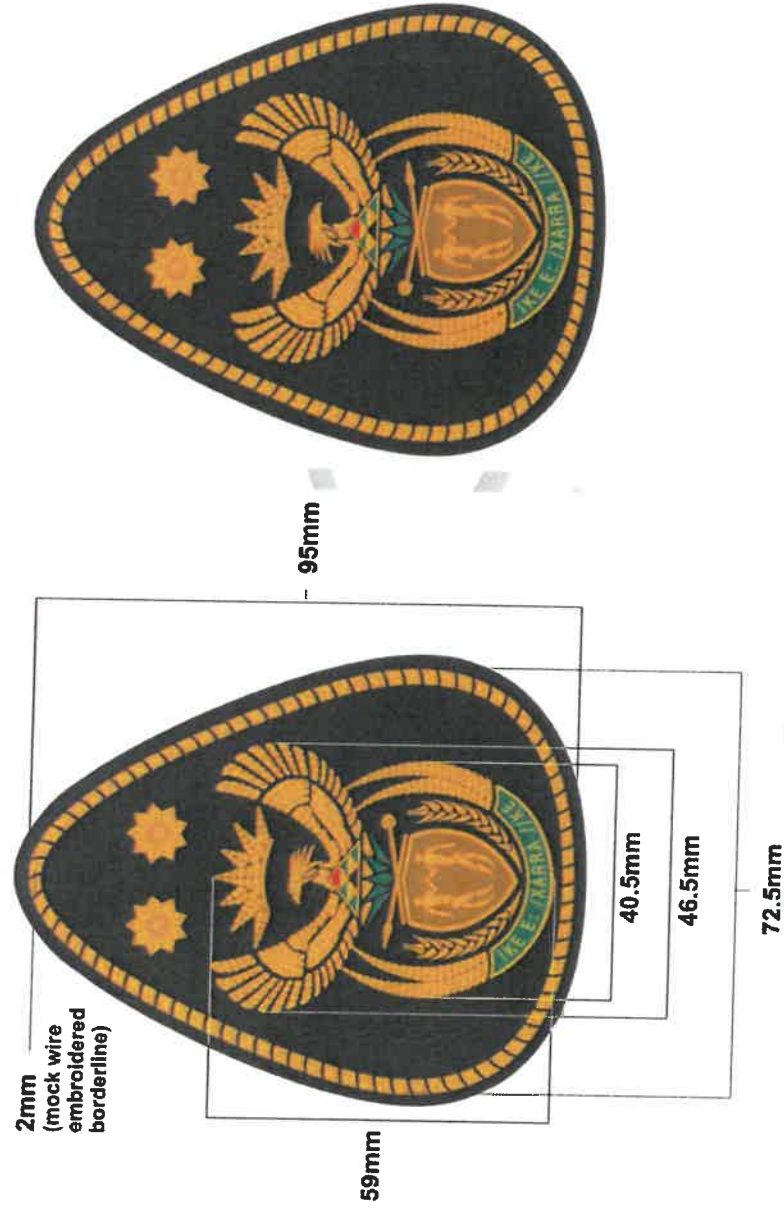
11.3 Ceremonial dress - WO1 LEVEL 4/SWO



NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	20 of 51

11.4 Ceremonial dress – WO1 LEVEL 4A/MWO



FABRIC

Black

FLAT

Red
No. 2203c/96 of CKS129

Green
No. 2205c/96 of CKS129

Gold
Pantone 873c

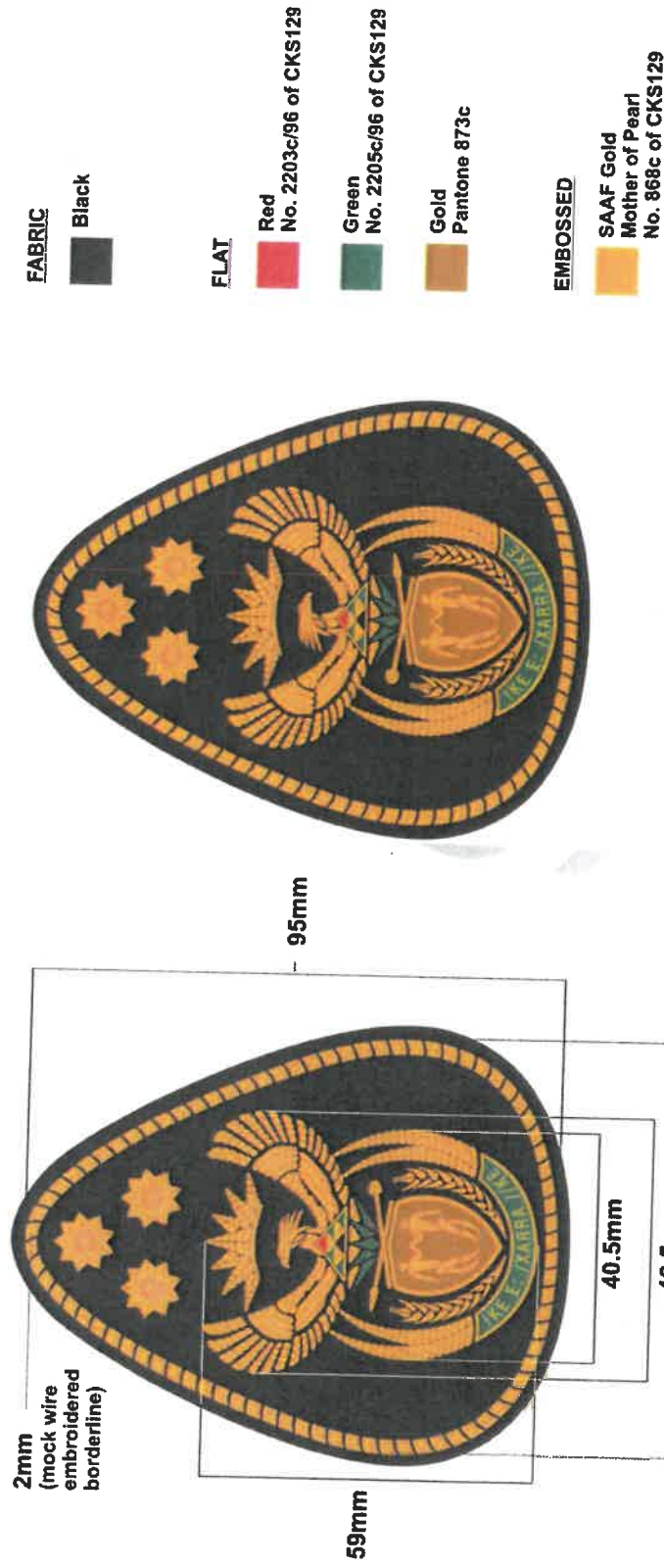
EMBOSSED

SAAF Gold
Mother of Pearl
No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	21 of 51

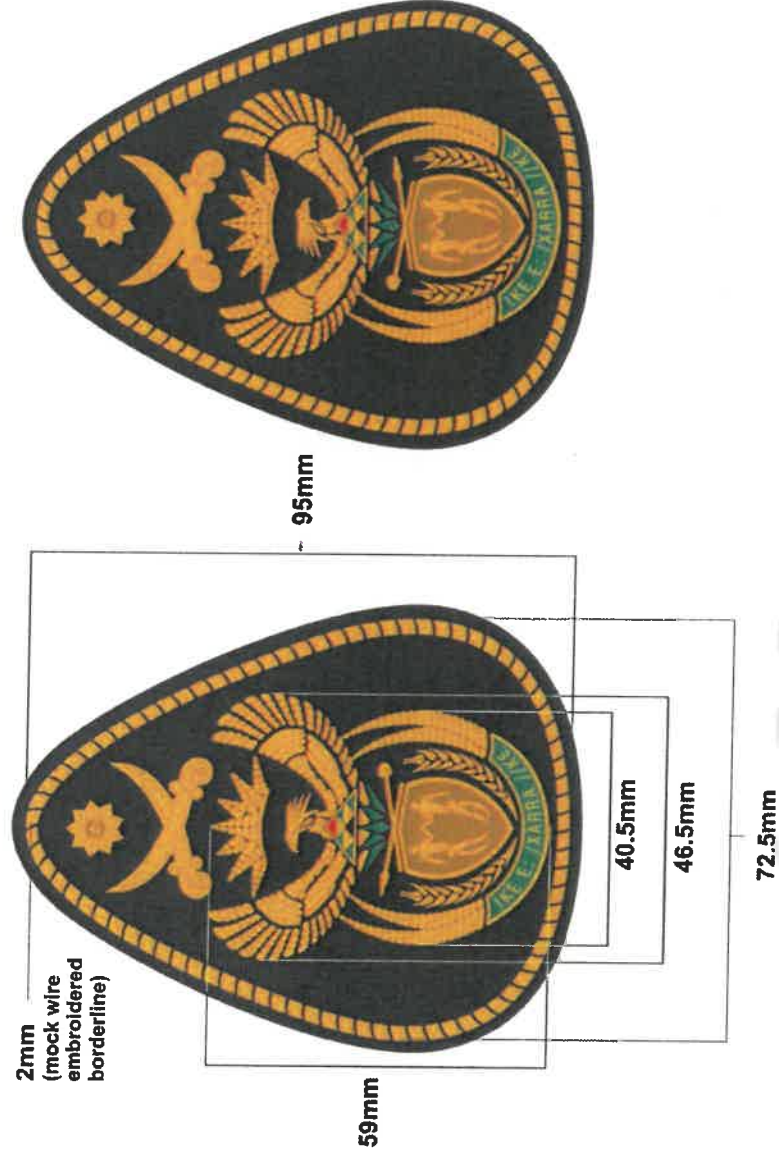
11.5 Ceremonial dress - WO1 LEVEL 3/CWO



NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	22 of 51

11.6 Ceremonial dress - WO1 LEVEL 2/SCWO



FABRIC



FLAT



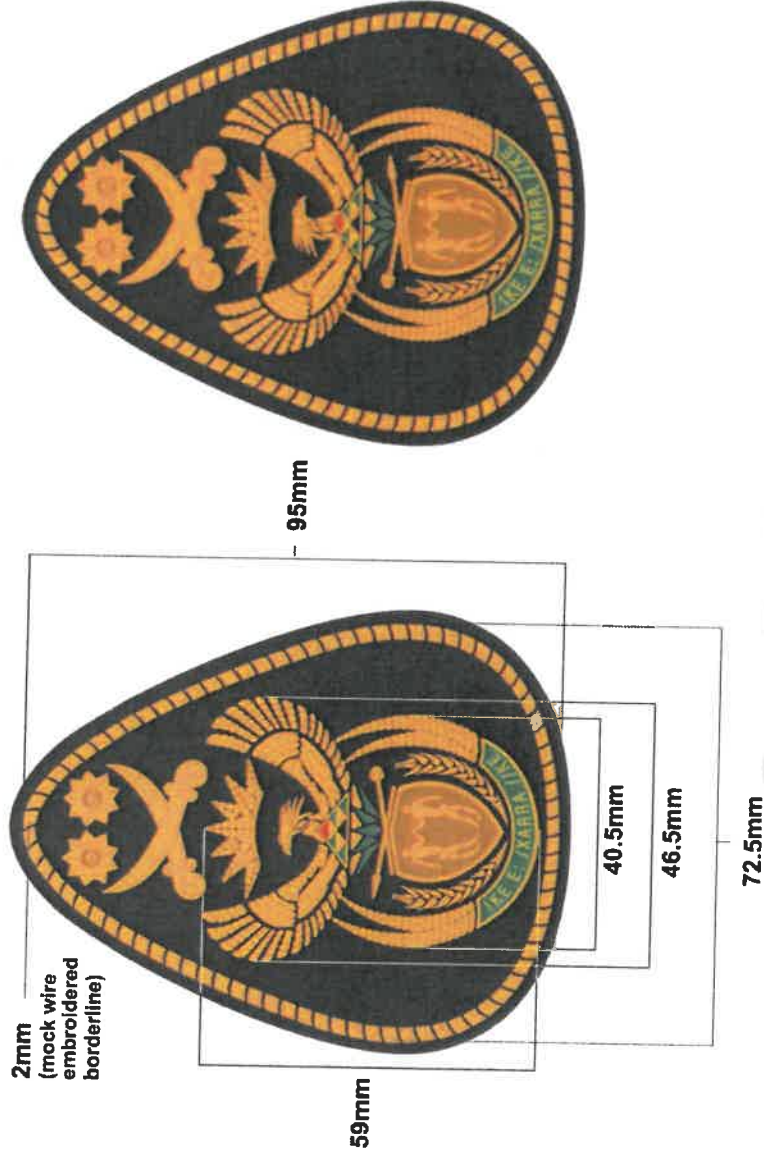
EMBOSSED



NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	23 of 51

11.7 Ceremonial dress - WO1 LEVEL 1/MCWO



FABRIC



FLAT



No. 2203c/96 of CKS129



No. 2205c/96 of CKS129



Pantone 873c

EMBOSSSED



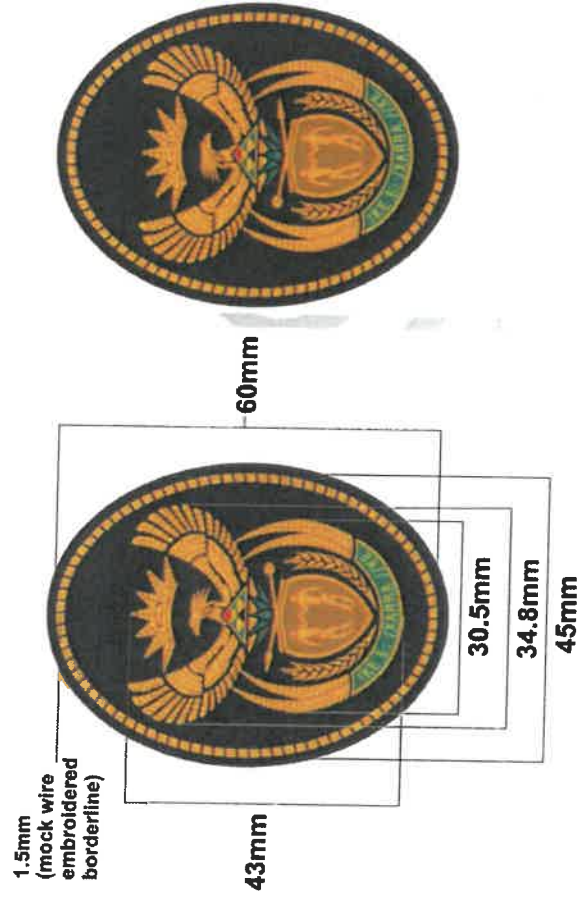
No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	24 of 51

12.RANK INSIGNIA FOR MESS DRESS

12.1 Mess dress - WO2



FABRIC



FLAT



No. 2203c/96 of CKS129



No. 2205c/96 of CKS129



Pantone 873c

EMBOSSED

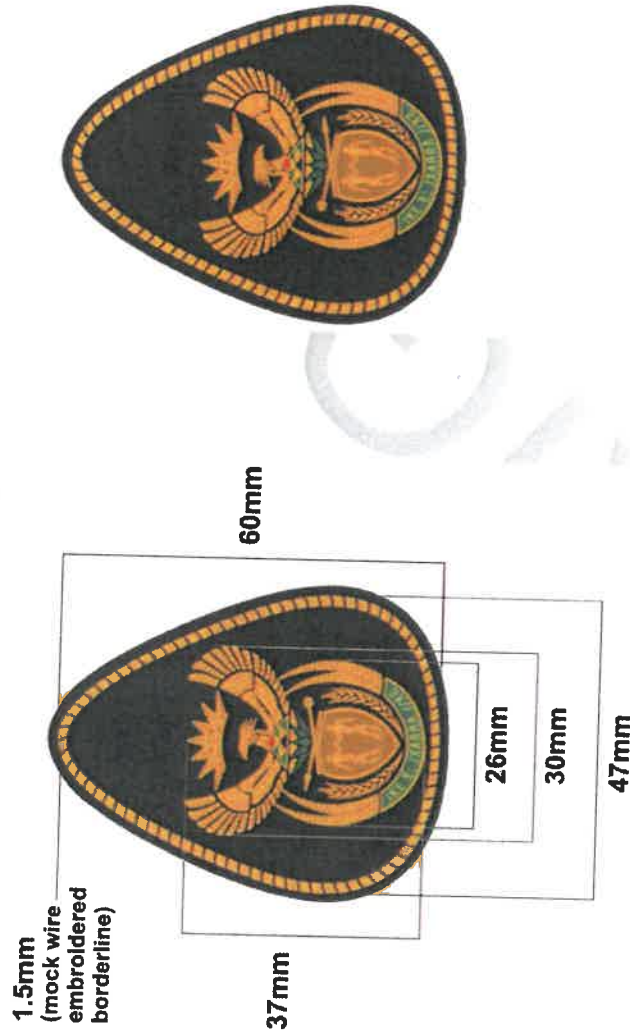


No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	25 of 51

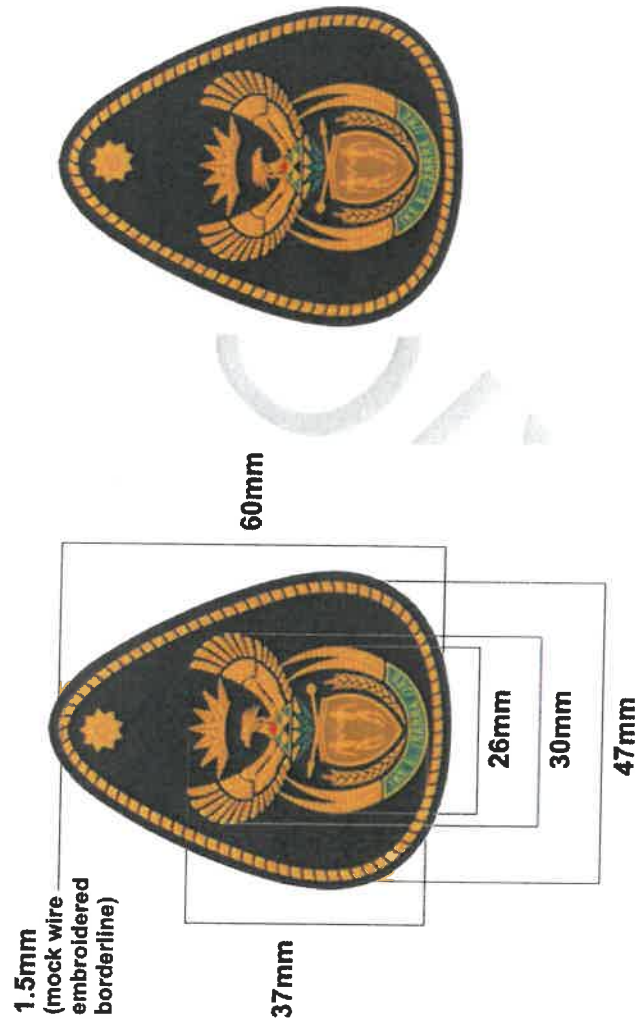
12.2 Mess dress - WO1



NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	26 of 51

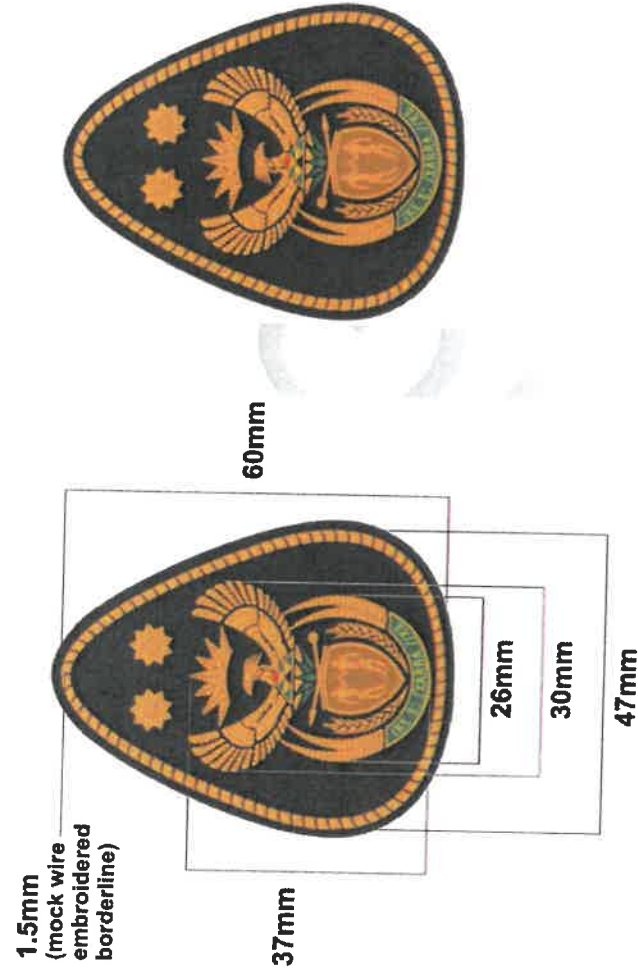
12.3 Mess dress - WO1 LEVEL 4/SWO



NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	27 of 51

12.4 Mess dress - WO1 LEVEL 4A/MWO



FABRIC



Black

FLAT



Red
No. 2203c/96 of CKS129



Green
No. 2205c/96 of CKS129



Gold
Pantone 873c

EMBOSSED

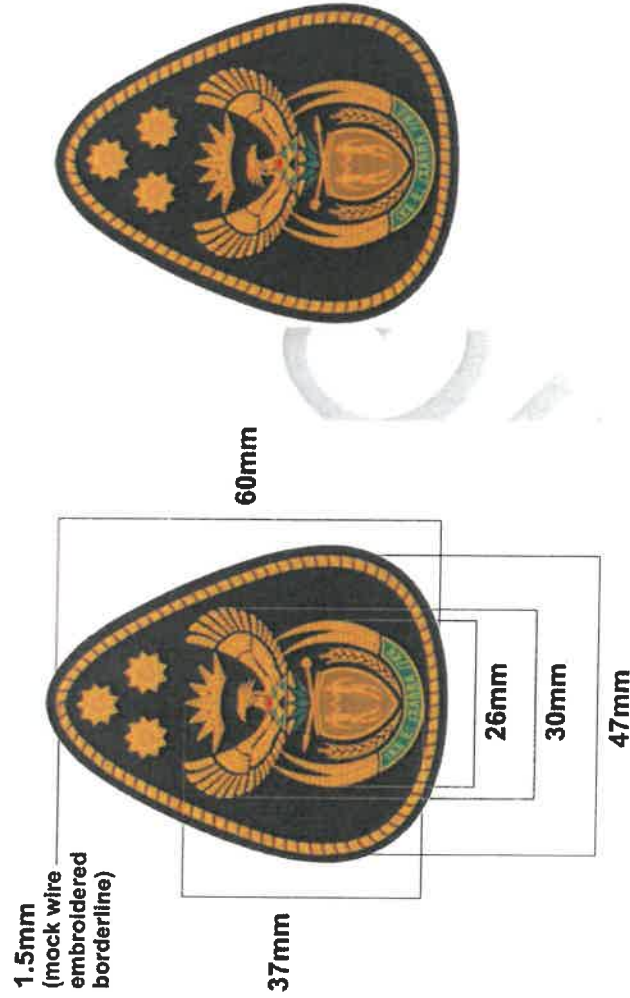


SAAF Gold
Mother of Pearl
No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	28 of 51

12.5 Mess dress - WO1 LEVEL 3/CWO



FABRIC



FLAT



No. 2203c/96 of CKS129



No. 2205c/96 of CKS129



Pantone 873c

EMBOSSED

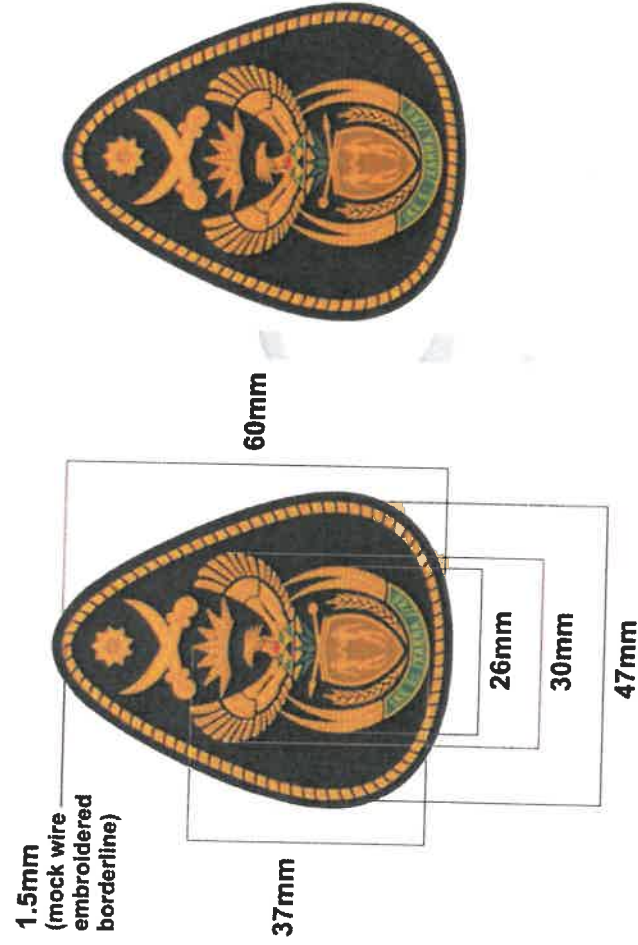


No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Verslon	No. of pages
SALM 570	November 2023	SAAF	13.0	29 of 51

12.6 Mess dress - WO1 LEVEL 2/SCWO



FABRIC



FLAT



No. 2203c/96 of CKS129



No. 2205c/96 of CKS129



Pantone 873c

EMBOSSED

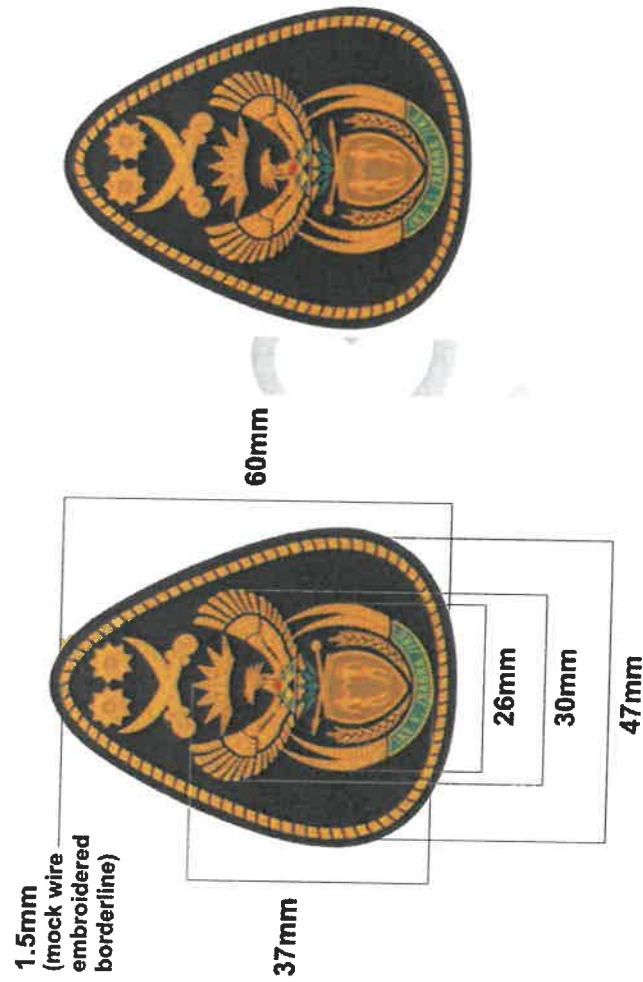


No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	30 of 51

12.7 Mess dress - WO1 LEVEL 1/MCWO



FABRIC



Black

FLAT



Red
No. 2203c/96 of CKS129



Green
No. 2205c/96 of CKS129



Gold
Pantone 873c

EMBOSSED



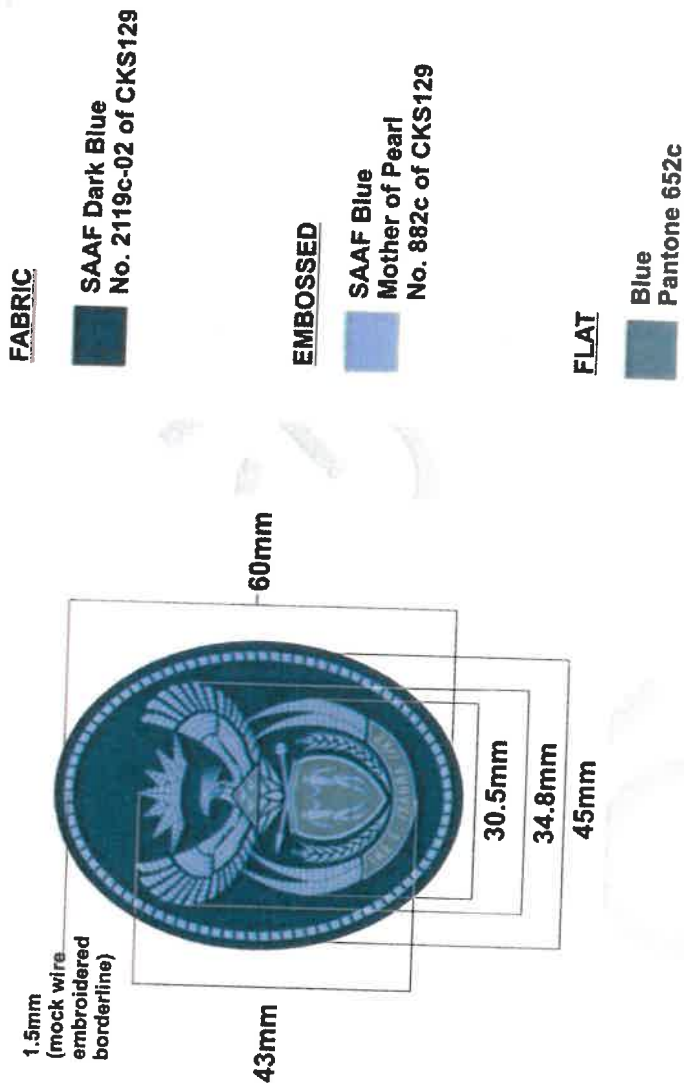
SAAF Gold
Mother of Pearl
No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the badges.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	31 of 51

13. RANK INSIGNIA FOR PROTECTIVE & FLYING COVERALLS

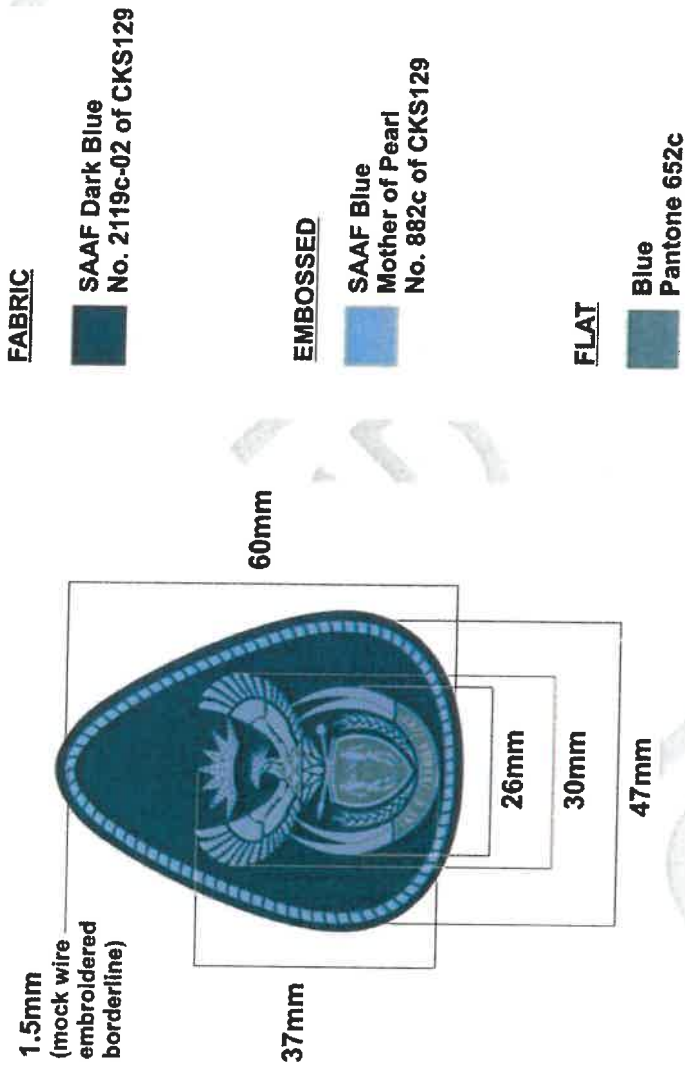
13.1 Protective dress and badges for Flying Coveralls - WO2



NOTE 1: The above illustrations do not reflect the actual size of the badges.
NOTE 2: The badges to be supplied as singles and worn on the wearer's left (bird to face right).

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	32 of 51

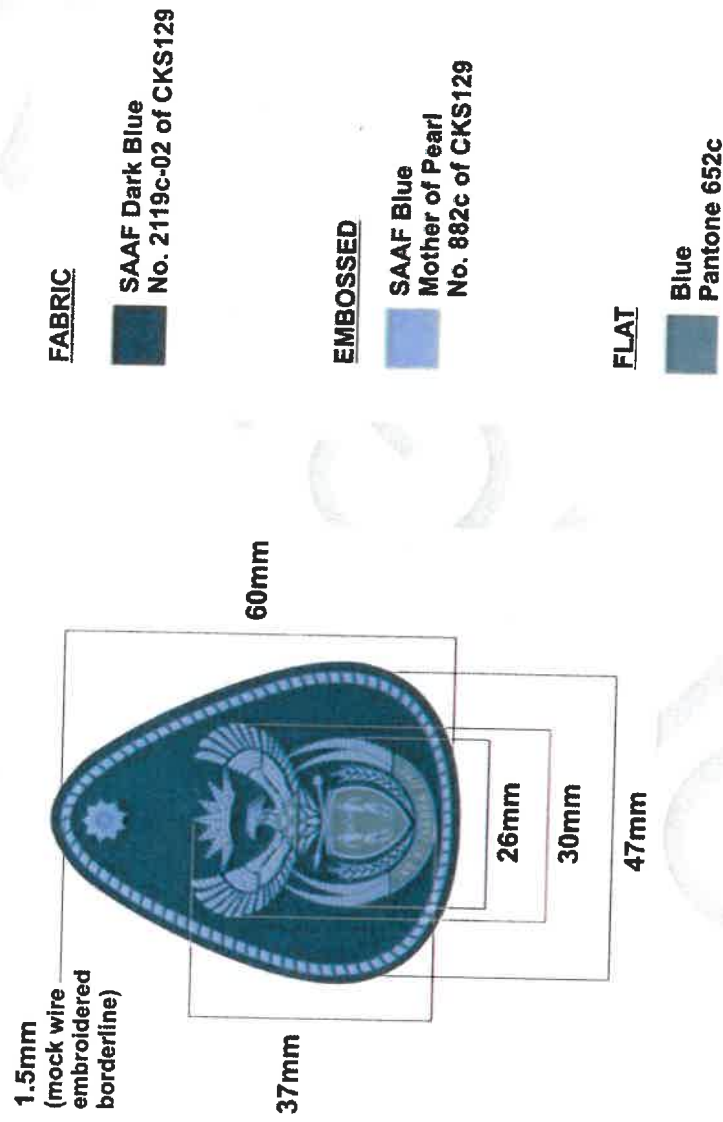
13.2 Protective dress and badges for Flying Coveralls - WO1



NOTE 1: The above illustrations do not reflect the actual size of the badges.
 NOTE 2: The badges to be supplied as singles and worn on the wearer's left (bird to face right).

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	33 of 51

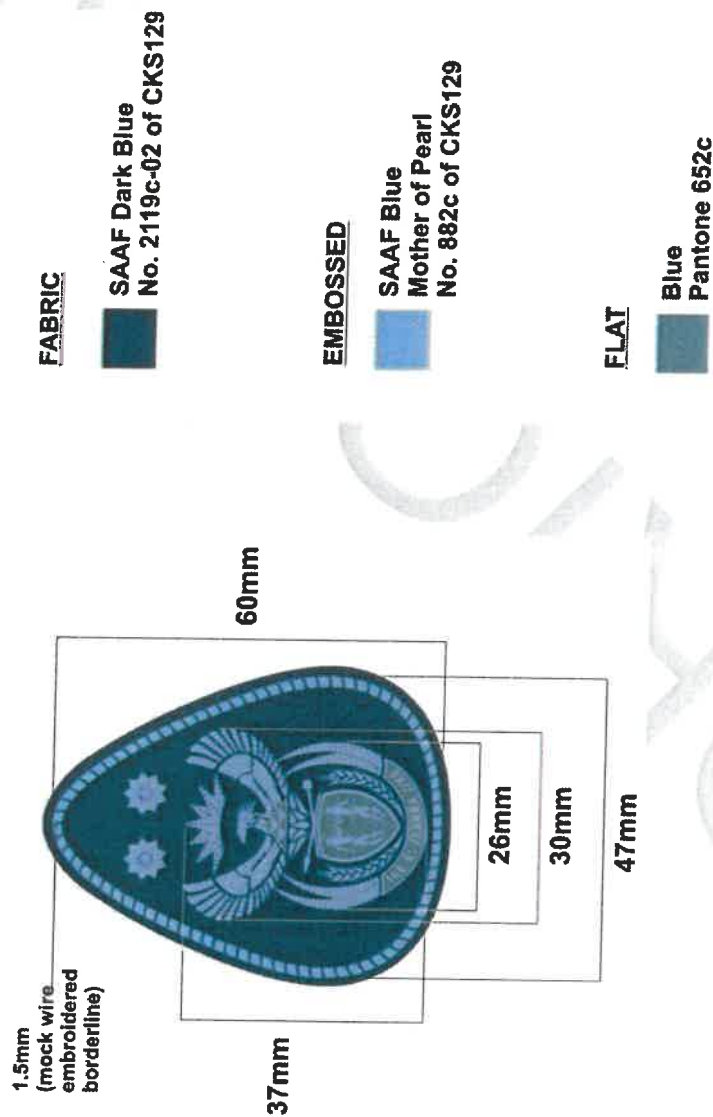
13.3 Protective dress and badges for Flying Coveralls - WO1 LEVEL 4/SWO



NOTE 1: The above illustrations do not reflect the actual size of the badges.
 NOTE 2: The badges to be supplied as singles and worn on the wearer's left (bird to face right).

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	34 of 51

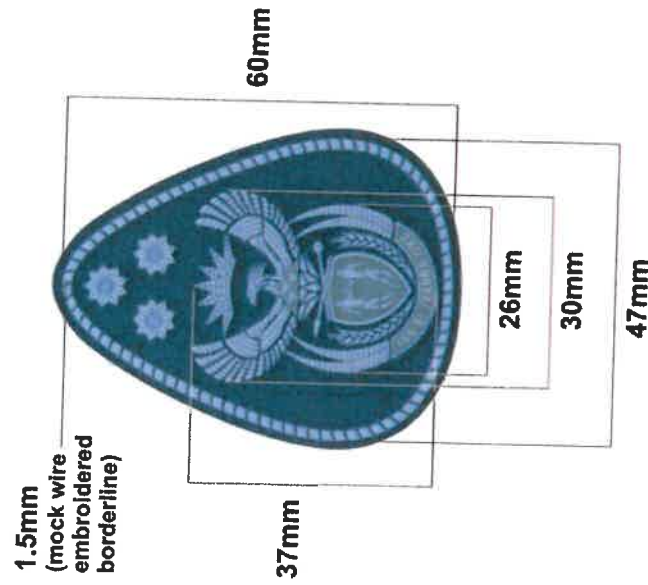
13.4 Protective dress and badges for flying coveralls - WO1 LEVEL 4A/MWO



NOTE 1: The above illustrations do not reflect the actual size of the badges.
 NOTE 2: Badges to be supplied as singles and worn on the wearer's left (bird to face right).

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	35 of 51

13.5 Protective dress and badges for flying coveralls - WO1 LEVEL 3/CWO



FABRIC



SAAF Dark Blue
No. 2119c-02 of CKS129

EMBOSSED



SAAF Blue
Mother of Pearl
No. 882c of CKS129

FLAT

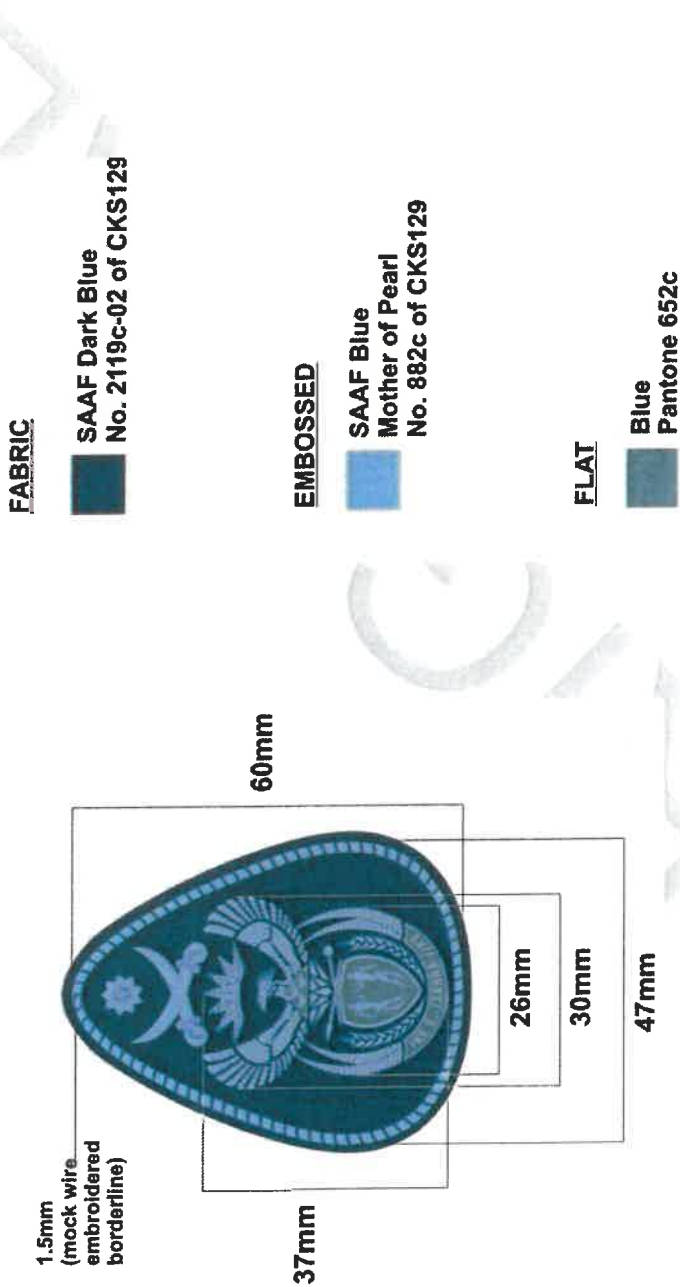


Blue
Pantone 652c

NOTE 1: The above illustrations do not reflect the actual size of the badges.
NOTE 2: Badges to be supplied as singles and worn on the wearer's left (bird to face right).

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	36 of 51

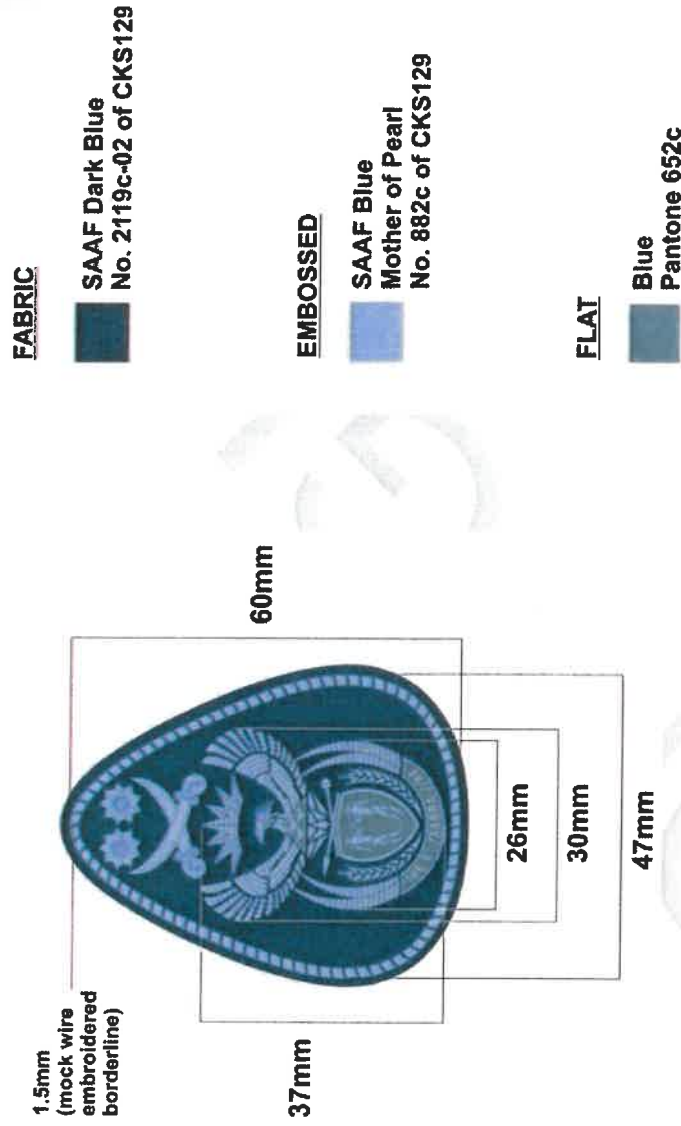
13.6 Protective dress and badges for Flying Coveralls - WO1 LEVEL 2/SCWO



NOTE 1: The above illustrations do not reflect the actual size of the badges.
 NOTE 2: Badges to be supplied as singles and worn on the wearer's left (bird to face right).

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	37 of 51

13.7 Protective dress and badges for Flying coveralls – WO1 LEVEL 1/MCWO



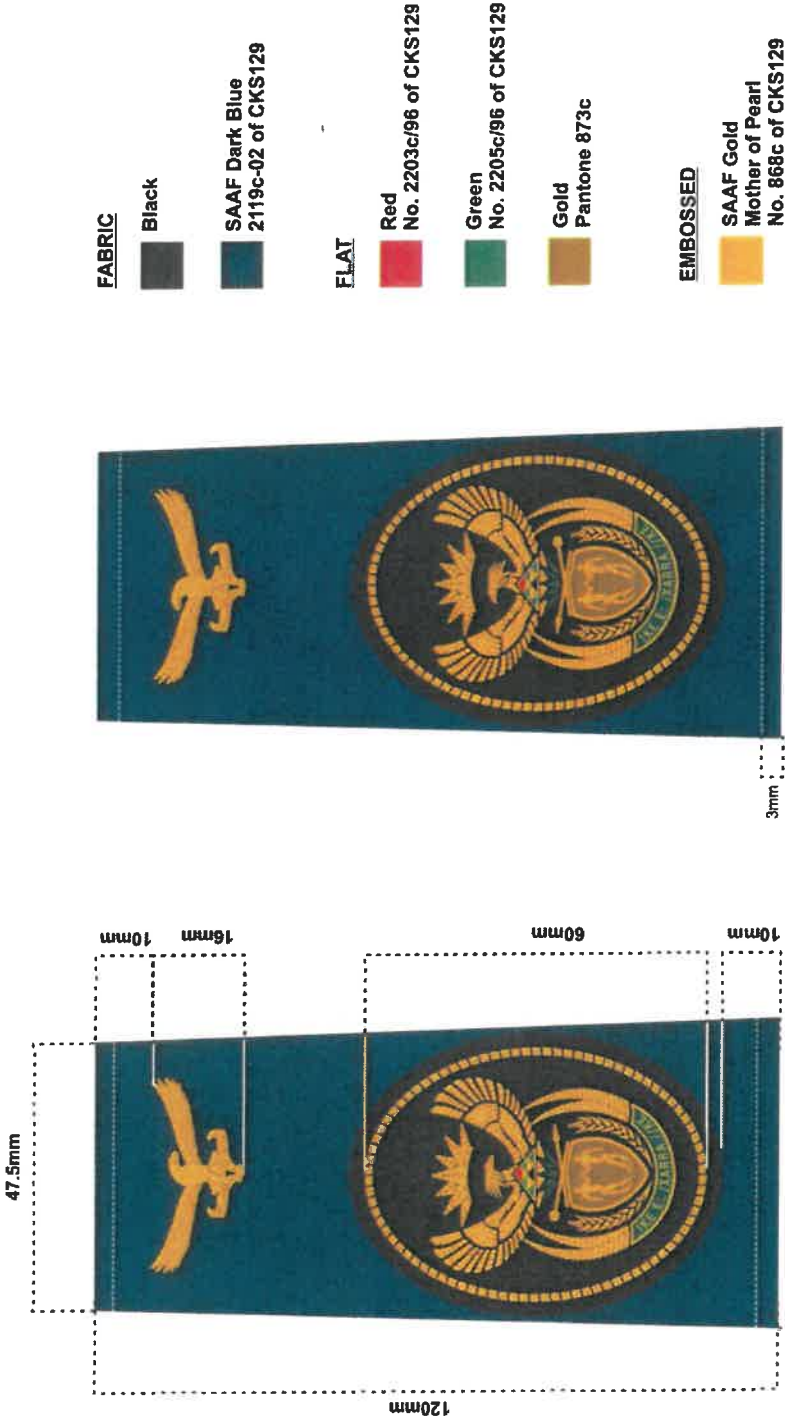
NOTE 1: The above illustrations do not reflect the actual size of the badges.

NOTE 2: Badges to be supplied as singles and worn on the wearer's left (bird to face right).

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	38 of 51

14.RANK INSIGNIA FOR SERVICE DRESS

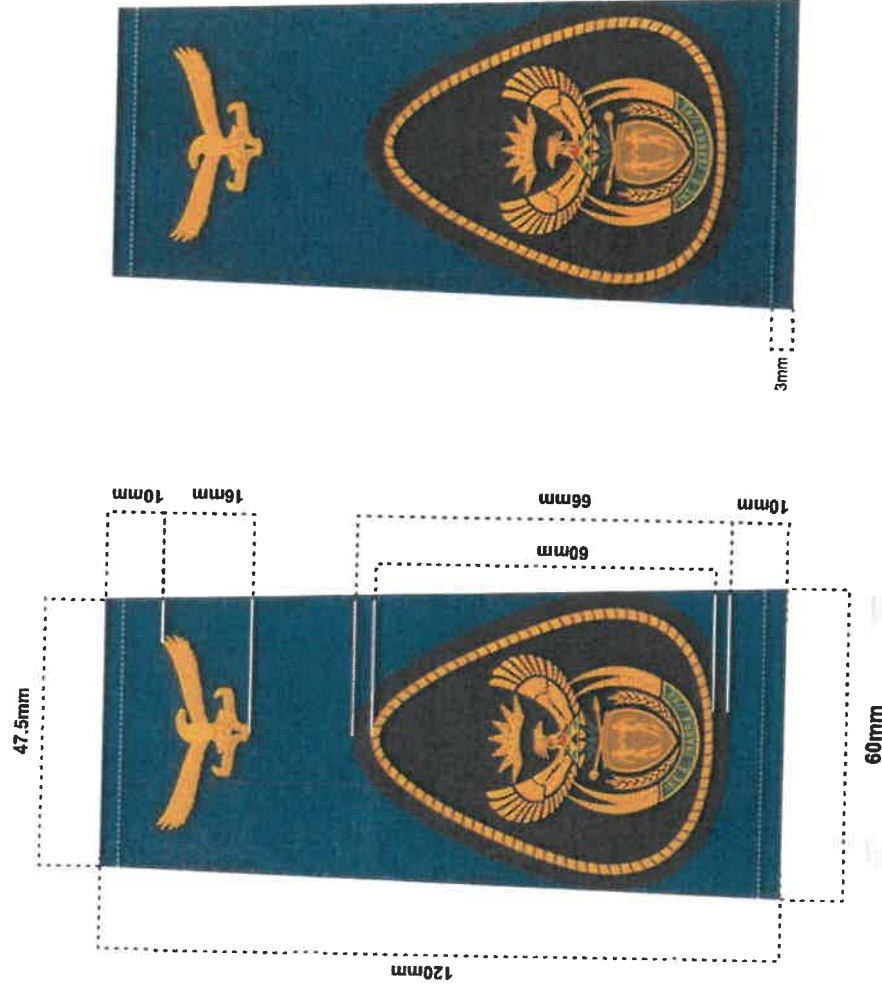
14.1 Service dress - WO2



NOTE: The above illustrations do not reflect the actual size of the shoulder boards.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	39 of 51

14.2 Service dress - WO1



FABRIC



Black



SAAF Dark Blue
2119c-02 of CKS129

FLAT



Red
No. 2203c/96 of CKS129



Green
No. 2205c/96 of CKS129



Gold
Pantone 873c

EMBOSSED

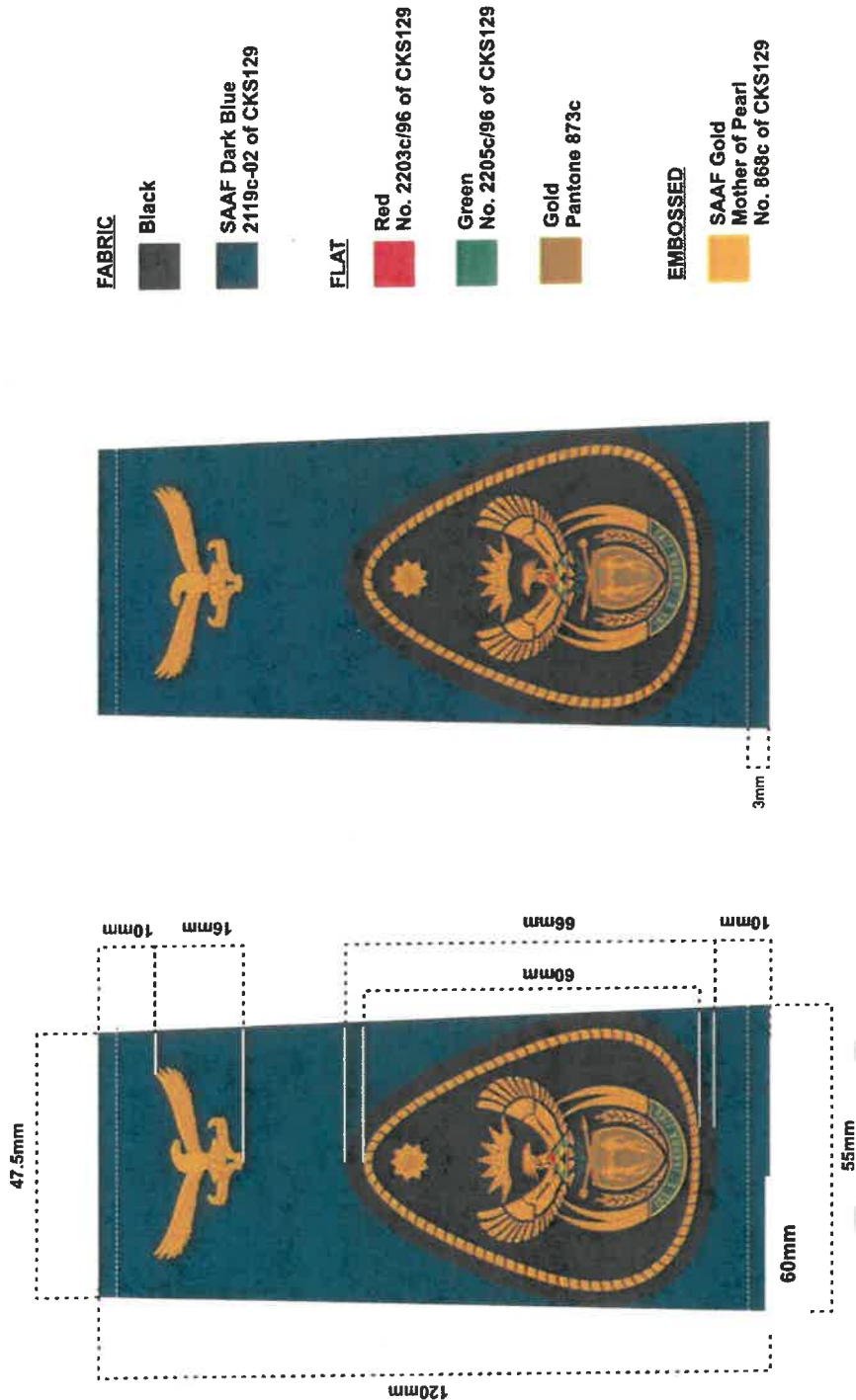


SAAF Gold
Mother of Pearl
No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the shoulder boards.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	40 of 51

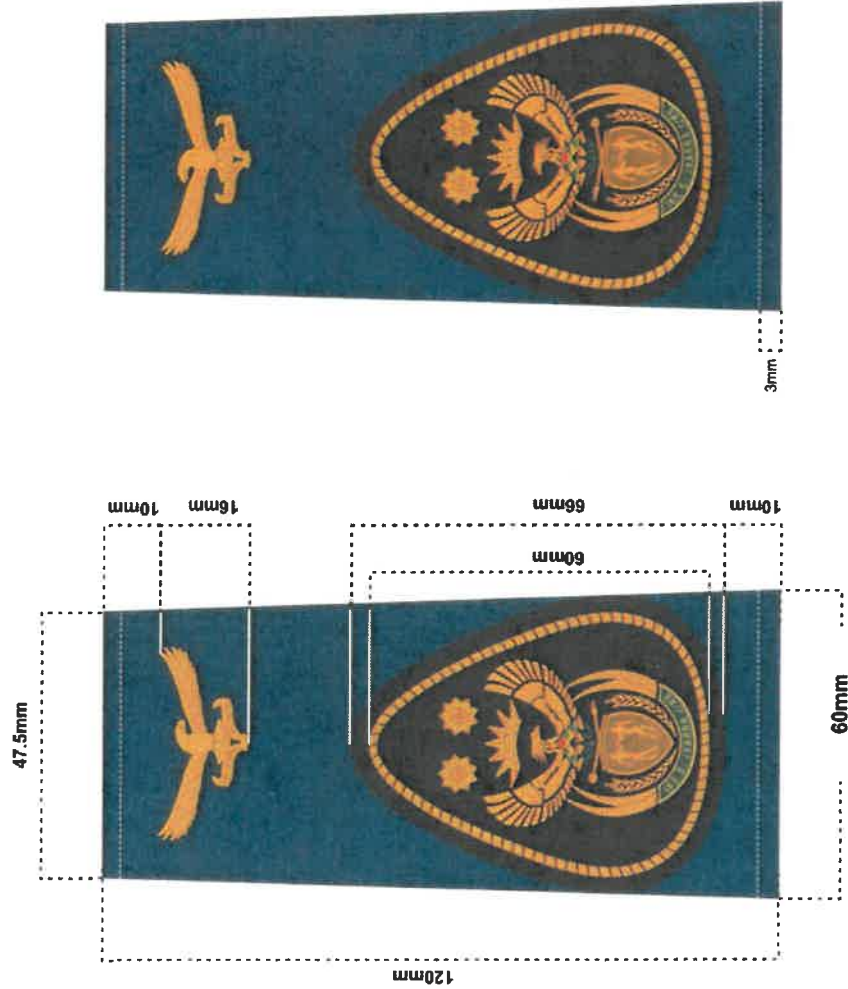
14.3 Service dress - WO1 LEVEL 4/SWO



NOTE: The above illustrations do not reflect the actual size of the shoulder boards.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	41 of 51

14.4 Service dress - WO1 LEVEL 4A/MWO



FABRIC



Black



SAAF Dark Blue
2119c-02 of CKS129

FLAT



Red
No. 2203c/96 of CKS129



Green
No. 2205c/96 of CKS129



Gold
Pantone 873c

EMBOSSED

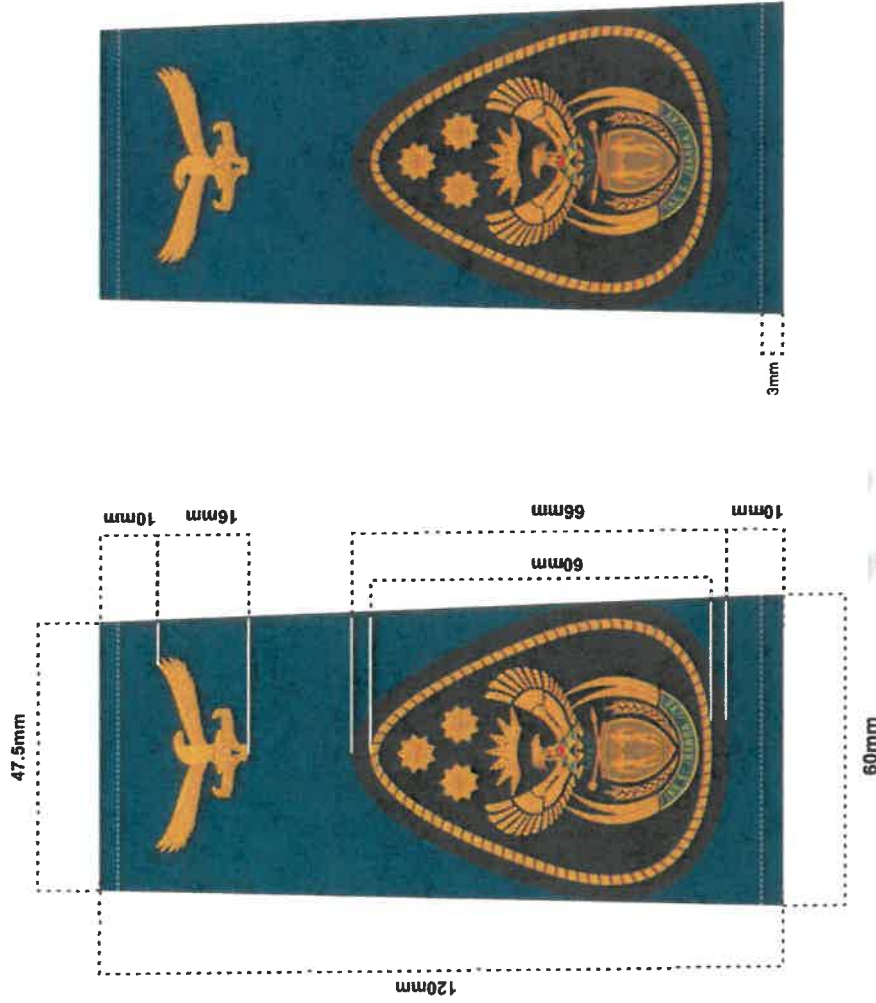


SAAF Gold
Mother of Pearl
No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the shoulder boards.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	42 of 51

14.5 Service dress - WO1 LEVEL 3/CWO



FABRIC

Black

SAAF Dark Blue
2119c-02 of CKS129

FLAT

Red
No. 2203c/96 of CKS129

Green
No. 2205c/96 of CKS129

Gold
Pantone 873c

EMBOSSED

SAAF Gold
Mother of Pearl
No. 868c of CKS129

NOTE: The above illustrations do not reflect the actual size of the shoulder boards.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	43 of 51

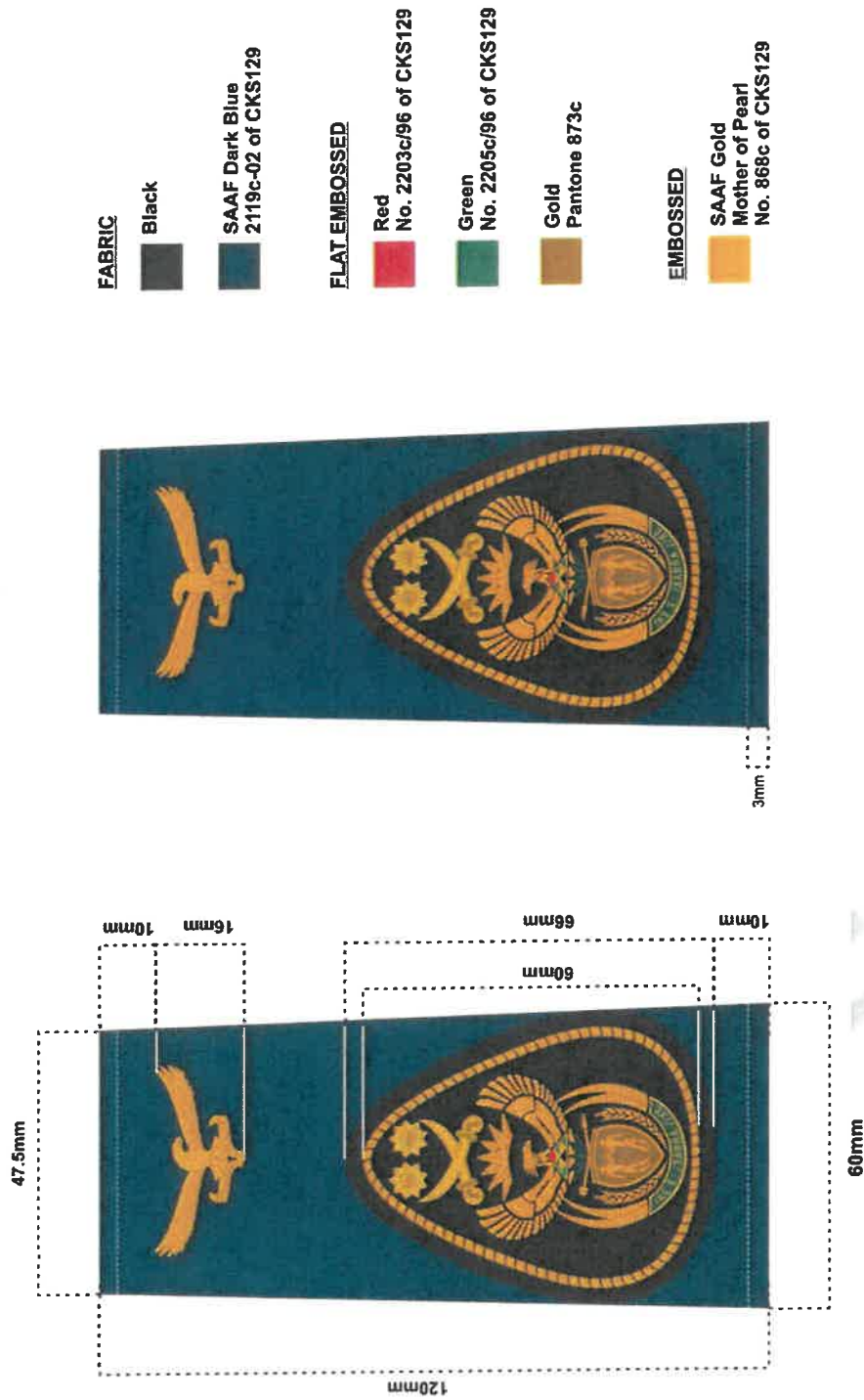
14.6 Service dress - WO1 LEVEL 2/SCWO



NOTE: The above illustrations do not reflect the actual size of the shoulder boards.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	44 of 51

14.7 Service dress - WO1 LEVEL 1/MCWO



NOTE: The above illustrations do not reflect the actual size of the shoulder boards.

Ref. No	Date	Responsibility	Version	No. of pages
SALM 570	November 2023	SAAF	13.0	45 of 51

15. Packing and marking

15.1 Packing

The rank insignia shall be:

- ♦ delivered in a commercially dry condition
- ♦ so packed that they will not be damaged in transit or in storage
- ♦ packed as given in table 13

Table 13 – Packaging

1		2
PACKAGING MATERIAL ^a		CONTAINING ^b
A. 1	Small plastics envelope with a pull and press opening	Ceremonial and Mess Dress insignia: 1 pair (of the same rank) that consist of a left and a right facing Secretary bird; mirror images of swords, knobkierie-and-spear combination. - Relevant amount of clutches
A.2	Small plastics envelope with a pull and press opening	Protective dress insignia: - Single badge (with right facing Secretary bird when worn) - Relevant amount of clutches.
A.3	Small plastics envelope with a pull and press opening	Service dress insignia: 1 pair (of the same rank) that consist of a left and a right facing Secretary bird and Eagle; mirror images of swords, knobkierie-and-spear combination; 5 pairs bundled together
A.4	Small plastics envelope with a pull and press opening	Flying Coveralls: A single iron-on badge (with right facing Secretary bird when worn)
B.	Bulk container for transit (dimensions in cm) of dimensions 46 x 31 x 31	Envelopes as specified in A.1 to A.4
^a Of suitable size and shape. ^b Of the same designation and rank.		

15.2 Marking

15.2.1 Small plastics envelopes

Small plastics envelopes to have a label clearly showing the following information:

- ♦ the National Stock Number (NSN)
- ♦ the manufacturer's name or trade mark or both
- ♦ the year of manufacture

15.2.2 Bulk containers

Each bulk container shall be labelled as given in paragraph 11.2 of SALM 108 "Corrugated board boxes for clothing".

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15.3 Additional marking

When so required by the South African Air Force, embossed rank insignia, envelopes or containers (or any combination of these) to bear information additional to that specified above.

16. Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this specification. All standards are subject to revision and, since any reference to a standard is deemed to be a reference to the latest edition of a standard, parties to agreements based on this specification are encouraged to take steps to ensure the use of the most recent editions of the standards indicated below. Information on currently valid national and international standards may be obtained from SABS Standards Division¹.

AATCC method 20, *Fiber analysis: Qualitative*. Available from World Wide Web
<http://www.aatcc.org/Technical Test Methods/scopes/tm20.cfm>

CKS 129, *Colours for textiles*.

SALM 108, *Corrugated board boxes for clothing*.

SANS 105-B02/ISO 105-B02, *Textiles - Tests for colour fastness Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*.

SANS 105-C10/ISO 105-C10, *Textiles – Tests for colour fastness – Part C10: Colour fastness to washing with soap or soap and soda*.

SANS 105-D01, *Textiles – Tests for colour fastness – Part D01: Colour fastness to dry-cleaning*.

SANS 5385, *Mass per unit area of conditioned knitted textiles*.

SANS 10076-4, *The assessment of defects in textile piece-goods and made-up articles Part 4: Defects in knitted piece-goods*.

¹ **SABS: Tel. +27 (0) 12 4287911**
www.sabs.co.za

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ANNEX A

(Normative)

Special conditions of tender

A-1 GENERAL

- A-1.1** Unless otherwise stated, the South African Air Force or an appointed SANAS accredited inspection body shall be the inspecting authority.
- A-1.2** Three pre-production sample pairs of shoulder boards/badges (where pairs are applicable), shall have been inspected, tested and approved by the inspecting authority before bulk production is commenced. Each one of these samples shall be accompanied by a trim chart containing a sample of each component material (as given in 4) and the relevant certificates. It shall be the duty of the manufacturer to give adequate notice to the inspecting authority of the availability of these samples.
- A-1.3** The shoulder boards/badges shall be subject to inspection during the course of manufacture. The inspector shall, during normal working hours, be given all reasonable facilities for carrying out his duties and shall have the right of entry into the contractor's factory and the factory or works of any subcontractor where work on shoulder boards/badges supplied to this specification may be in progress
- A-1.4** The contractor shall inspect the finished shoulder boards/badges for compliance with the specification before submitting them to the inspecting authority for final inspection.
- A-1.5** Before acceptance, the shoulder boards/badges shall have been inspected and tested by the inspecting authority and found to comply with the requirements of the specification.

A-2 DOCUMENTATION

One container of each consignment shall be marked "DOCUMENTS" and in addition to the shoulder boards/badges, shall contain the following:

- a) The packaging slip or delivery note;
- b) where applicable the inspection certificate(s);
- c) a copy of the invoice containing the following information:
 - the order number
 - the financial authority number
 - a full description of the consignment, i.e. National Stock Number, quantity, etc

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ANNEX B
(Normative)
CKS 129 Colours

Due to the fact that colours can change over a period of time, any colour standard which has been registered for a period of SEVEN YEARS or more shall be considered obsolete. These standards shall then be allocated an archived status (as opposed to current status) and re-registration shall be required.

NOTE: *Before fabric is sent to the Inspection Authority for colour registration purposes, the successful bidder shall confirm with the Inspection Authority whether a submission is required or not.*

A. The following scenarios require a submission of three metres of fabric from the successful bidder:

1. A colour standard is archived.
2. First time registration is required (CKS 129 colour number does not exist).
3. The custodian of the CKS 129 library is out of stock.

B. Requirements for the submission of fabric as identified in A:

1. The colour shall be as agreed upon between the South African Air Force and the successful bidder.
2. The fabric shall be used to make new colour swatches which shall be the responsibility of the custodian of the CKS 129 library.
3. The cost of the three metres of fabric shall be incorporated in the relevant bid submission.

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HISTORY SHEET				
DOC ISSUE	DATE	AMENDMENTS/HISTORY	CHECKED	
			NAME	INIT.
1		First release		
2	May 2002	a) Background colour of shield b) Serration of fastening pin c) Background colour of shield on Mess dress and Service dress profiles d) Nine point star for Ceremonial/Service dress to have protea in the centre		
3	June 2002	a) Flat printed colours added		
4	July 2002	Reference to indentation groove removed		
5	September 2006	a) Colour reference changed to No 652c b) Protective dress supplied as singles with right facing bird only		
6	September 2008	a) Changed layout and format of specification b) Change Service Dress badge to shoulder boards. c) Changed mass of base material (according to SABS test report) d) Update all colour references. e) Add footnote on pages 5 and 6. f) Add reference to sculptured levels of stars and sword. g) Change mass of adhesive film (according to info from manufacturer) h) Delete reference to "Coverall" in whole spec; Add camouflage collar badges i) Delete reference to "Field dress" in whole spec (moved to collar badge spec) j) Add reference to SANS 10076-4 k) Add design of stars for Protective and Mess dress l) Add left and right profiles m) Add Annex B n) Add reference and illustration of domed surface on shoulder boards o) Change rank titles p) Change camouflage dress be iron-on/sewn-on (remove reference to pin and clutch fastening) q) Change width of shoulder board to 60 mm at the bottom edge		
7	May 2009	a) Changed table 6 to reflect embossed and flat print areas to comply with profiles of section 13. b) Change 4.3.2.1 and 4.3.2.2 to comply with profiles of section 13 c) Inner three triangles to be embossed, all other triangles to be flat print.		
8	September 2010	a) Add reference to additional garment: flying coverall b) Add reference to year of registration of CKS 129 colours.		
9	July 2011	a) Add pin and clutches to Camouflage Dress and Flying coveralls b) Add positioning instructions for camouflage dress		
10	April 2014	a) Change type of clutch		
11	February 2015	a) Add NSNs of camouflage badges b) Add printing of L & R on back of shoulder board		

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HISTORY SHEET				
DOC ISSUE	DATE	AMENDMENTS/HISTORY	CHECKED	
			NAME	INIT.
11.1	March 2018	Omit Camouflage insignia and insert in SALM 666. Correct NSN: 18-097-6894 to 18-097-6794 Amend: Flying coverall to be iron-on New NSNs for flying coverall		
12	April 2018	12 th Release		
13	November 2023	Correct NSN: 18-097-6892 to 18-097-6792 Correct NSN: 18-097-6893 to 18-097-6793		

ORIGINAL

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