PRIVATE SPECIFICATION

Prepared for

The South African Navy

Embossed emblems

for Chaplains

SAN 057

Revised January 2005

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1. Scope

This specification covers the material, cut and make of embossed armbands and shoulder boards for chaplains of the South African Navy.

2. Definitions

acceptable: acceptable to the Directorate, Naval Logistics.

nominal: subject to the tolerances normal to good manufacturing practice.

3. Style

Cloth emblems for chaplains shall consists of two items:

Tenderer's comments

- Armbands
  - shaped length of outer material
  - consist of two laminated layers
  - have a religious symbol
    - > embossed in gold colour
    - > three different emblems
      - # Christian, Hindu and Jewish
- Shoulder boards
  - rectangular length of outer material
  - consist of two laminated layers
  - have a religious symbol
    - > embossed in gold colour
    - > three different emblems
      - # Christian, Hindu and Jewish

4. Illustrations and Dimensions

Illustration shows the left armband only. The armbands shall be manufactured in pairs. The religious symbols shall be of the same width and height as shown in the shoulderboard illustrations.

The shoulderboards shall be made in pairs.

Christian (Shoulderboard)

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Hindu (Shoulder board)

Jewish (Shoulder board)

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5. Materials - General

No materials will be supplied by the SA Navy.

- The materials specified in 6 and 7 are to be supplied and used by the manufacturer

A trim chart containing a sample of each component material (as given in 7) must accompany the pre-production samples

6. Outer material

Tenderer's comments

The outer material to:

- be warp knitted
- be synthetic
- 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.502c – 70[1] "Spectrum violet" of CKS 129 "Colours for textiles" (unless otherwise permitted by the South African Navy)
- have a colour fastness to light of 4 when tested in accordance with SANS 105 B02 "Textiles - Test for colourfastness Part B02: Colourfastness to artifical light: Xenon arc fading lamp test"
- have a colourfastness to washing of 4 when tested in accordance with SANS 105 C03 "Textiles - Test for colourfastness Part C03: Colourfastness to washing: Test 3
- have a nominal mass per unit area 265g/m²

1) Colour is archived. Three metres of outer material must be submitted for colour re-registration purposes: see annexure A.

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7. Component materials

Tenderer's comments

7.1 Adhesive film

The adhesive film to be:

- used as a backing and inbetween the two layers of outer material
- a hot melt
- co-polymer adhesive
- quality not less than 60g/m²
- such that when tested the outer material layers shall not separate from each other when washed 10 times at 60°C

7.2 Embossing material

The material to be:

- a rubber paint compound

Embossing must:

- have high resistance to heat
- be colour fast
- show explicit detail

Colour to be:

- a gold colour that complies to colour No.826c-00 "Gold braid" of CKS 129 "Colours for textiles"

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8. Workmanship

The emblems shall be:

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

Shall be free from:

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

All edges shall be:

- neatly double sealed, using a welding system
- free from fraying

9. Sizes

Table 1

1	2	3	4
National stock No.	**Description**	**Size of cloth**	**Quantity**
8455-18-174-5096	Christian (Armband)	460mm x 100mm (shaped)	Pairs
8455-18-174-5260	Christian (Shoulder board)	100mm x 50mm	Each
8455-18-174-5265	Hindu (Armband)	460mm x 100mm (shaped)	Pairs
8455-18-174-5204	Hindu (Shoulder board)	100mm x 50mm	Pairs
8455-18-174-5197	Jewish (Armband)	460mm x 100mm (shaped)	Pairs
8455-18-174-5263	Jewish (Shoulder board)	100mm x 50mm	Pairs

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10. Make

Tenderer's comments

Armbands and shoulderboards

Armbands and shoulderboards shall:

- be constructed from two layers of knitted outer fabric, laminated together with a hot melt co-polymer
- be embossed on the face side
- have double sealed edges, sealed with a welding system
- be of the specified design and size of the profile as shown in section 4

The hot melt co-polymer used between the layers of the material and the welding system must render an article which is:

- heat resistant
- machine washable
- dry cleanable
- soft and pliable
- not distorted when ironed onto the garment
- sealed at the edges

11. Packing and marking

11.1 Packing

The armbands and shoulderboards shall be:

- delivered in a commercially dry condition
- so packed that they will not be damaged in transit or in storage
- packed (as specified in table 1, column 4) in a plastics envelope of suitable size and shape, with a pull and press opening and closure
- unless otherwise specified in the order or contract, acceptably packed for transportation in acceptable bulk containers that comply with the requirements of RSA-MIL-SPEC 296 "Corrugated board boxes for clothing and footwear"

Armbands and shoulderboards:

- of the same emblem and type (i.e. armband or shoulderboards) to be packed together in a bulk container (unless quantities ordered are such that packing together of the same emblem and type is not justified).
- of different emblems may also be packed together to accommodate the last part of an order or contract

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Tenderer's comments

11.2 Marking

11.2.1 Envelopes

Each envelope to be clearly marked with the following information:

- the designation, i.e "Embossed emblems for chaplains"
- the type, eg. Armband (Christian)
- the National stock number

11.2.2 Containers

Each bulk container to have a label securely attached to the outside visible when the containers are stacked and providing the information as specified in RSA-MIL-SPEC 296 "Corrugated board boxes for clothing and footwear"

11.3 Additional marking

When so required by the South African Navy, armbands, shoulderboards, envelopes or containers (or any combination of these) to bear information additional to that specified above.

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12. 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 Standards South Africa.

RSA-MIL-SPEC 296, *Corrugated board boxes for clothing and footwear.*

CKS 129, *Colours for textiles.*

SANS 105-B02, *Textiles - Test for colourfastness Part B02: Colourfastness to artifical light: Xenon arc fading lamp test.*

SANS 105-C03, *Textiles - Test for colourfastness Part C03: Colourfastness to washing: Test 3*

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

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Annex A
(normative)

Special conditions of tender

General

A-1 Unless otherwise stated, the South African Bureau of Standards, shall be the inspecting authority.

A-2 Three pairs of pre-production samples of each emblem of armbands and shoulderboards, 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 7) and the relevant certificates. Three metres of the outer material fabric must also be submitted by the successful tenderer to make swatches for colour re-registration purposes. It shall be the duty of the manufacturer to give adequate notice to the inspecting authority of the availability of these samples.

A-3 The armbands and shoulderboards 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 armbands and shoulderboards supplied to this specification may be in progress.

A-4 The contractor shall inspect the finished armbands and shoulder boards for compliance with the specification before submitting them to the inspecting authority for final inspection.

A-5 Before acceptance, the armbands and shoulderboards shall have been inspected and tested by the inspecting authority and found to comply with the requirements of the specification.

A-6 Any applications for deviations from drawings or the specification, or any laid down process, treatment or procedures as set out in this specification, must be made to the SA Navy Office, Pretoria.

Documentation

One container of each consignment shall be marked "Documents" and shall, in addition to the armbands and shoulderboards, contain the following:

1) The packing slip/delivery note;
2) where applicable, the certificate(s) of conformance; and
3) a copy of the invoice containing the following:
   i) the order number
   ii) the financial authority number
   iii) a full description of the consignment, i.e items, size(s), quantity, etc.