



**Technical Specification for
SHOULDER MARK
Woven, Insignia
Royal Navy, Officers**

Defence Clothing

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PREFACETABLE 1 – PRODUCT LIST

Item Name	SHOULDER MARK Woven, Insignia RN, Officers	
Development File No.	NN/SCD/P938	
Product Support File No.	NV/533/07	
NATO Stock Numbers	Rank and Branch	Pattern Number
8455-99-139-0800	Commander, RNR. (SCC CCF RN)	42369
8455-99-139-0801	Lt. Commander, RNR. (SCC/CCF RN)	29046
8455-99-139-0802	Lieutenant, RNR (SCC/CCF RN)	V42371A
8455-99-139-0803	Sub Lieutenant RNR (SCC/CCF RN)	22257
8455-99-132-3822	Midshipman	21005
8455-99-124-1118	Chaplain	22253

Any colour shown in this document is for representation and must not be used for colour matching.

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TABLE 2 – ISSUE RECORD

Issue No.	Comments	Issue Date
4	Reformatted. DEF STAN 83-53 deleted.	13 August 2009
3	Reformatted and technically reviewed. Addition of NSN's 124-1118 & 139-0800.	27 August 2003
2	Reformatted with no technical changes.	08 October 2001
1	New Specification. Supersedes UK/SC/4225	23 October 1967

PART 11. THE PRODUCT

- a. Use of the Product. Woven badges with rank and branch distinction to form part of the detachable shoulder marks.

Detachable shoulder marks with woven rank and branch distinction for wear by RN Officers.

TABLE 3 – RELATED SPECIFICATIONS AND DOCUMENTS

Specification/Document	Detail
BS EN ISO 105 B02 C06 X12	Textiles. Tests for colour fastness. Colour Fastness to artificial Light: Xenon ARC Fading lamp. Colour Fastness to domestic & commercial laundering. Colour Fastness to rubbing.
BS EN 12590	Textiles Industrial sewing threads wholly or partly made from synthetic fibres.
BS 3870 Parts 1 and 2	Stitches and seams.

2. PATTERNS

- a. Master Patterns. The DC holds a Master Pattern for this product. Potential contractors may view the pattern on site by arrangement with the DC Commercial Department.
- b. Standard Patterns. A Standard Pattern may be obtained from the DC Technical Information Office and may be used to provide the criteria for all materials, components and manufacturing features not fully defined in this specification.

PART 23. PRODUCT DESIGNa. Product Description.

Insignia. The insignia are to be as detailed in Table 6.

The overlap of the curl of the top bar is to be reversed for right and left sides.

Sleeve. Detachable Shoulder Marks, with woven insignia, rank and branch distinction as appropriate, to fit over the shoulder straps of clothing and fasten with press stud fasteners.

The shoulder marks are to be made and provisioned in pairs.

TABLE 4 – PRODUCT COMPONENTS

4.1 Base ribbon	<ul style="list-style-type: none"> Warp R10/2 tex, polyester, black. Weft 60/2 cotton count, mercerised cotton, black. Ends per cm (excluding selvages) 53 min. Picks per cm 25 min. Weave 1/3 broken twill. Selvages – Reinforces 12 ends, each side in 3/1 and 1/3 weave alternately. The colour fastness of the ribbon is to meet the requirements of Table 7.
4.2 Insignia	<ul style="list-style-type: none"> 2 x R22/2 Tex nylon. Insignia picks per cm 25 min. The shades of the yarns are to match those of the appropriate standard pattern and meet the colour fastness requirements of Table 7.
4.3 Sleeve	<ul style="list-style-type: none"> Cloth, twill, cotton, black, SF to match standard pattern or an alternative approved by DC IPT.
4.4 Rank Insignia	<ul style="list-style-type: none"> Woven as detailed in Clause 5.1 and Table 6 of this specification.
4.5 Fastening	<ul style="list-style-type: none"> Fastener, snap, cap, black enamelled, as on the Standard Pattern.
4.6 Button for Midshipman	<ul style="list-style-type: none"> Button, anodised aluminium Insignia 17mm(26L) Royal Navy Officers NATO Stock No. 8455-99-137-4686. Pattern No.20921.
4.7 Sewing Threads for all purposes	<ul style="list-style-type: none"> Thread, polyester/cotton, to Table 5 of BS EN 12590, black, Ticket No. 75. Or an alternative approved by the DC IPT.

TABLE 5 – PRODUCT CONSTRUCTION

INSIGNIA	
5.1 Weaving	<ul style="list-style-type: none"> The insignia are to be woven by Jacquard Mechanisms or other suitable method on a base ribbon with margins of not less than 0.3cm above and below each motif. The insignia are to be provided in lengths of not less than five of any rank or branch.
5.2 General	<ul style="list-style-type: none"> The insignia are to be cleaned of loose ends of thread, be pressed and delivered in a clean condition.
SLEEVE	
5.3 Insignia	<ul style="list-style-type: none"> The overlap on the curl of the insignia is reversed for right and left sides, with the overlap of the curl running towards the rear of the respective shoulder.
5.4 Sleeve	<ul style="list-style-type: none"> The insignia is to be sewn centrally on the sleeve using a single row of stitching, except for the Midshipman's insignia which is to be offset 2cm to avoid excessive thickness when the button is mounted and the fasteners engaged. The sleeve is to be sewn using seam type 1.06.02 of BS 3870. The four sides are to be edge stitched. Two pairs of snap fasteners are to be clenched to the badge, with the female positioned at the corners and the male in correct register with the female.
5.5 Stitching	<ul style="list-style-type: none"> Machine stitching is to be stitch type 301 of BS 3870 with at least eight but not more than ten stitches per 2cm.
5.6 General	<ul style="list-style-type: none"> Sewing threads may be treated with a stain free lubricant. Seams are to be free from pucker. The shoulder marks are to be free from all ends of sewing threads, be pressed and delivered in a clean condition. All insignia to be as standard pattern.
5.7 Measurements	<ul style="list-style-type: none"> The shoulder marks are to conform to the following dimensions: Effective width: 5.5cm. Full width: 14cm. Length: Determined by the rank insignia.

TABLE 6 – INSIGNIA DESCRIPTION

NATO Stock No. 8455-99-	Rank and Branch	Insignia
139-0800	Commander, RNR. (SCC/CCF RN)	Three rows of gold 10mm wide, waved. Curl on top row to be formed with curl forming circle 50mm overall diameter: rows spaced 7mm apart.
139-0801	Lt. Commander, RNR. (SCC/CCF RN)	Two rows of gold 10mm wide, waved, with one row of gold 3mm wide, waved, between. Curl on top row to be formed with curl forming circle 50mm overall diameter: rows spaced 9mm apart.
139-0802	Lieutenant, RNR (SCC/CCF RN)	Two rows of gold 10mm wide, waved, with curl on top row formed as above: rows spaced 6mm apart.
139-0803	Sub Lieutenant RNR (SCC/CCF RN)	One row of gold 10mm wide waved, with curl as above.
132-3822	Midshipman	One button, 17mm (26L) anodised aluminium, on white rectangular patch 3.8cm long and 2.2cm wide.
124-1118	Chaplain	Maltese cross with gold anchor.

TABLE 7 – COLOUR FASTNESS REQUIREMENTS

- The dye fastness of both the base ribbon and the motif yarn is to meet the requirements set out in the table below.

Method of Test BS EN ISO 105					
B02		CO6		X12	
Light (xenon)		Washing		Rubbing	
Colour change	Stainin g	Colour change	Stainin g	Colour change	Stainin g
7	-	5	-	Dry	3
				Wet	4

4. LABELLING REQUIREMENTS

- Each item is to be individually wrapped (pairs or each) and identified by a clearly printed pressure sensitive self adhesive label firmly adhered to the outside of the polythene envelope/Bag.

TABLE 8 – SPECIMEN LABELS

8455-99-416-4169 Lt Commander

Figure 2. Example Identification for Insignia