



Technical Specification for CAP CEREMONIAL BONNET FEATHER SCOTS GUARDS AND STANDARDISED SCOTTISH REGIMENTS

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PREFACE

TABLE 1 – PRODUCT LIST

Item Name	CAP CEREMONIAL BONNET FEATHER	
Development File No		
Product Support File No.	D/DCTA/502/02 QPS	
Item	NATO Stock Number	Pattern Number
Scots Guards	8405-99-975-6622 to 6627	10243A
Standardised Scottish Regiments	8405-99-132-6589 to 6596	22329

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
02	Reformatted to DE&S template. Clause 5.3 (Diced Banding) amended for technical changes.	10 January 2008
01	Item previously unspecified	10 August 2005

PART 1

1. THE PRODUCT

- a. Use of the Product. Feathers bonnets worn by Scottish Pipe Majors and Pipers for ceremonial occasions.

FIGURE 1.



TABLE 3 – RELATED SPECIFICATIONS AND DOCUMENTS

Specification/Document	Detail
BS EN ISO 105 Part B02 Part E04	Textiles Test for colourfastness To light To Perspiration acidic and alkaline
BS EN ISO 139	Textiles Standard atmospheres for conditioning and testing
BS EN 12590	Industrial sewing threads made wholly or partly from synthetic fibres
BS 2471	Methods of test for textiles – Woven fabrics determination of mass per unit length and mass per unit area
BS 4736	Method for determination of dimensional changes of fabrics induced by cold water immersion
UK/SC/4667	Ribbon textile, viscose and cotton, black for Rosettes, Glengarries and bonnets, Scottish Regiments.
UK/SC/5696	Leather, sheep, headleathers

2. PATTERNS.

- a. Master Patterns. The DC IPT at Caversfield holds a Master Pattern for this product. Potential contractors may view the pattern on site by arrangement with the DC IPT Commercial Department.
- b. Standard Patterns. A Standard Pattern may be obtained from the DC IPT 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 2

3. PRODUCT DESIGN

- a. Product Description. A bonnet made from dyed black ostrich feathers over a wire cage with four or five tails

TABLE 4 – PRODUCT COMPONENTS

4.1	Wire frame	<ul style="list-style-type: none"> Steel enamelled black approximately 2mm in diameter to match the standard pattern
4.2	Cage cover	<ul style="list-style-type: none"> Cloth black cotton or cotton/polyester
4.3	Feathers	<ul style="list-style-type: none"> Ostrich feathers, dyed black, sewn to a ground cord, and to comply with the colour fastness requirements of Table 10
4.4	Band stiffener	<ul style="list-style-type: none"> Flexible vulcanised fibre approximately 2mm thick Or, flexible fibreboard approximately 1.75mm thick Or, an alternative approved by DC IPT
4.5	Headleather	<ul style="list-style-type: none"> Leather sheep skin, full grain, black, at least 1.0mm but not more than 1.2mm thick to meet the requirements of UK/SC/5696. Or an alternative approved by the DC IPT.
4.6	Diced bands	<ul style="list-style-type: none"> Wool, the colour fastness requirements of Table 10. Design and colours as described in table 5, clause 5.3 Knitted bands to comply with the physical properties of Table 8
4.7	Comforter	<ul style="list-style-type: none"> Cotton velvet black Or, viscose velvet black
4.8	Crown lining	<ul style="list-style-type: none"> Cloth plain weave polyester scarlet Or, cloth plain weave viscose scarlet
4.9	Lining drawcord	<ul style="list-style-type: none"> Ribbon textile scarlet 12mm wide
4.10	Rosette	<ul style="list-style-type: none"> Ribbon textile black 70mm wide to UK/SC/4667 Pattern No 9480A

TABLE 4 – PRODUCTION COMPONENTS Continued

4.11 Tail	<ul style="list-style-type: none"> • Ribbon textile black 58mm wide to UK/SC/4667 • Pattern No 9479A
4.12 Straps	<ul style="list-style-type: none"> • Leather cattle hide, vegetable tanned. black patent finish, thickness 1.0-1.2mm, and 12mm wide
4.13 Rivets and buckles for straps	<ul style="list-style-type: none"> • To be chrome finished • Rivets to be 7mm • Buckle to be 25mm long and 18mm wide
4.14 Hackle support	<ul style="list-style-type: none"> • Elastic cording 2mm diameter
4.15 Hackle hook	<ul style="list-style-type: none"> • Hook sewing black 2 eye • 1cm effective length
4.16 Thread	<ul style="list-style-type: none"> • Thread, corespun, polyester/ cotton to Table 5 of BS EN 12590 • Metric Ticket No 50 for feather attachment to cord, and cord attachment to wire cage. • Metric Ticket No. 75 all other sewing • Or an alternative approved by the DC IPT

TABLE 5 – PRODUCT CONSTRUCTION

5.1 Frame	<ul style="list-style-type: none"> • Formed from wire and soldered into shape as the standard pattern. 20cm high and 62cm circumference at its widest point • A black cloth cover is to be stitched to the frame, leaving an opening, two struts wide on the right side as worn.
5.2 Feathers	<ul style="list-style-type: none"> • Ostrich feathers are to be attached to the cover so no part can be seen • For Pattern No 10243A, there is to be five feathers tails, length as stated in Table 7 • For Pattern No 22329 there is to be four feather tails, length as stated in Table 7

TABLE 5 – PRODUCT CONSTRUCTION Continued

5.3 Diced banding	<ul style="list-style-type: none"> • Patterns 10243A and 22329 – Dicing to be scarlet/ navy/ white. • The bottom and top row of dicing are to be alternate white and scarlet. • The middle row to be scarlet and navy. • Diced banding may have a fusible interlining to maintain stability, for attachment to band stiffener.
5.4 Band stiffener	<ul style="list-style-type: none"> • The band stiffener 9cm in depth, cut in one piece, to the shape of the standard pattern. • The band stiffener is to be covered by the knitted diced cloth. • The band stiffener is to be edge bound on three side with velvet. • A headleather edge bound with tape is sewn to the band stiffener, none should show below band.
5.5 Chin straps	<ul style="list-style-type: none"> • A chin strap is to be attached between the band stiffener, and headleather. • The long part positioned on the left side as worn shall be 43cm and finished with a pointed end. • The short end positioned opposite shall have a finished length 10cm, with leather retainer 1.2cm wide. • The buckle and rivet to be positioned as standard pattern.
5.6 Back strap	<ul style="list-style-type: none"> • A strap is to be riveted to the back of the band, each piece positioned 3cm from the side and 2cm from the bottom. • The long part positioned to the right side as worn, finished length 10cm. • The short part, finished length 5.5cm, buckle positioned as standard pattern.

TABLE 5 – PRODUCT CONSTRUCTION Continued

5.7 Rosette	<ul style="list-style-type: none"> • The rosette is to be formed with two layers of ribbon, laid perpendicular to each other. • The top layer to be gathered to form the shape. • The raw edges on the bottom layer are to be turned under to give a neat appearance. • The rosette is positioned centrally on the left side as worn, the bottom edge to be above the velvet binding. • Finished length 8cm.
5.8 Ribbon Tails	<ul style="list-style-type: none"> • A tail of ribbon is to be attached at the centre back. • The ribbon 77cm long folded to create the tail. • The looped part to measure 16cm long. • The two tails 20cm and 25cm. • A 2.5cm “V” to be cut into the tail ends.
5.9 Lining	<ul style="list-style-type: none"> • Finished depth 16cm is to be attached to the top of the headleather. • The top edge to be hemmed. • A 1cm channel to be worked half up the lining. • The channels to be threaded with a drawcord of sufficient length to be tied neatly.

TABLE 6 – SCHEDULE OF NATO STOCK NUMBERS AND ACTUAL BODY MEASUREMENTS

	Size	52	53	54	55	56	57	58	59
Scots Guards Pattern No. 10243A	8405-99-975-			6622	6623	6624	6625	6626	6627
Scottish Regiments Pattern No. 22329	8405-99-132-	6589	6590	6591	6592	6593	6594	6595	6596

TABLE 7 – MEASUREMENTS AND TOLERANCES

All measurements in centimetres unless otherwise stated

	1 st Tail	2 nd Tail	3 rd Tail	4 th Tail	5 th Tail	Tolerances in +/- mm	
Scottish Regiments Pattern No. 22329	32	34	40	42	N/A	10	10
Scots Guards Pattern No. 10243A	38	43	46	48	50	10	10

TABLE 8 – REQUIREMENTS FOR THE DICING

PROPERTIES	REQUIREMENTS	METHOD OF TEST
Finished mass of body g/m ²	590+/-30	BS 2471 Method 5
Relaxation to shrinkage	2% max	See table 9 below

TABLE 9 – METHODS OF TEST TO DETERMINE RELAXATION SHRINKAGE

9.1 Preparation of cloth	<ul style="list-style-type: none"> • A specimen of the knitted fabric is to be conditioned as described in BS EN ISO 139, for 24 hours immediately prior to testing. • The specimen is to be laid flat and one pair of datum points, 20cm apart are to be marked on the fabric
9.2 Test method	<ul style="list-style-type: none"> • To BS 4736, section 8-test procedure up to and including section 8.3
9.3 Final measurements	<ul style="list-style-type: none"> • Condition the specimen to BS EN ISO 139 as before. • Measure the distance between the lines and calculate the percentage difference

TABLE 10 – REQUIREMENTS FOR OSTRICH FEATHERS

Method of test BS EN ISO 105			
B02		E04	
Light (xenon)		Water	
Colour change	Staining	Colour change	Staining
4	N/A	4	4

4. LABELLING REQUIREMENTS.

- NATO Stock Number, size number, and the contract number.
- Clearly printed on a pressure sensitive self-adhesive label, to be adhered to the headband at the back of the cap.

TABLE 11 – SPECIMEN LABELS

<p>Size 55</p> <p>8405-99-132-6592</p> <p>Contract Number</p>
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